SAMSUNG ELECTRONICS

SERVICE MANUAL

SVR-433/233/230B/230W/2301/131

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**AC68-00906A**

SAMSUNG

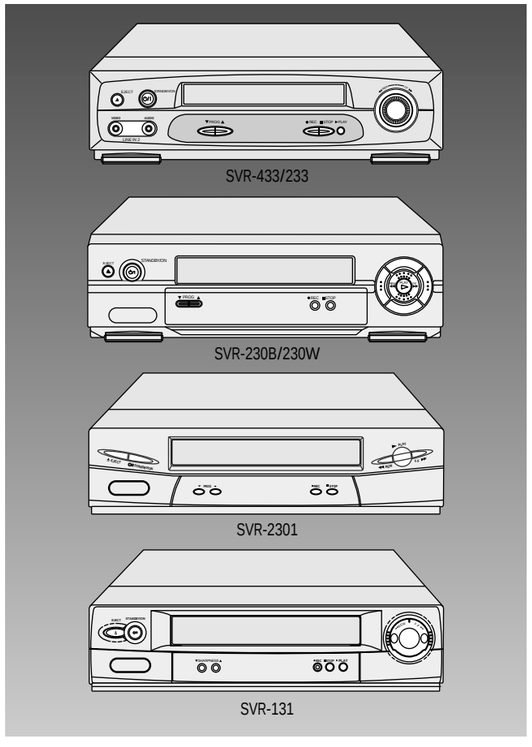
# VIDEO CASSETTE RECORDER

**SVR-433**
**SVR-233**
**SVR-230B**
**SVR-230W**
**SVR-2301**
**SVR-131**

# *SERVICE Manual*

For mechanical disassembly and adjustment, refer to the “Mechanical Manual” (DX-9R → AC68-00001A).

## VIDEO CASSETTE RECORDER



SVR-433/233

SVR-230B/230W

SVR-2301

SVR-131

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**1. Precautions**

**2. Alignment and Adjustment**

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**4. Electrical Parts List**

**5. Schematic Diagrams**

# IMPORTANT SERVICE GUIDE

## MODE SWITCH (PROGRAM SWITCH) ASSEMBLY POINT

1) When installing the ass'y full deck on the Main PCB, be sure to align the assembly point of mode switch.

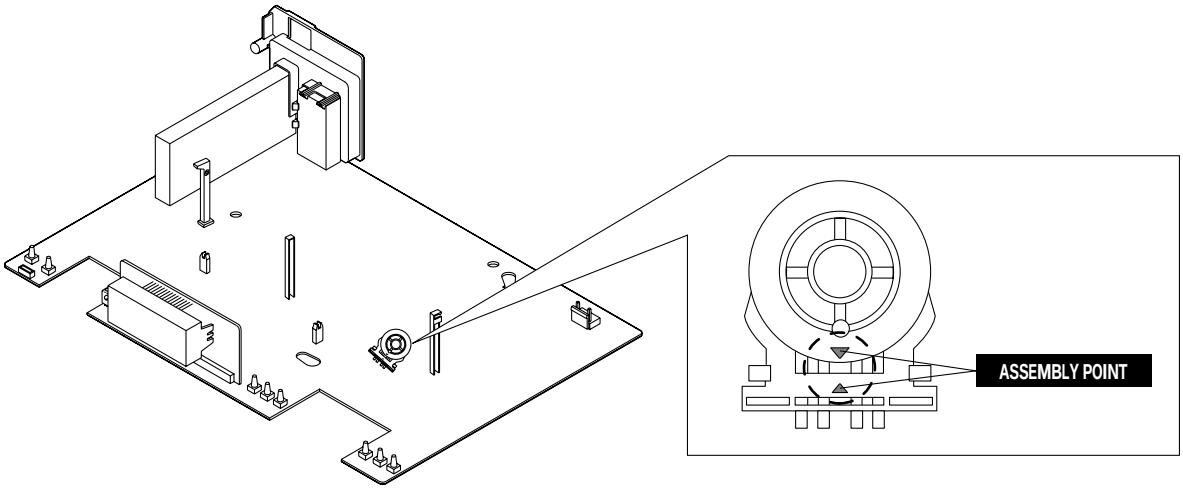



Fig. 1

## HOW TO EJECT THE CASSETTE TAPE
## (If the unit does not operate on condition that tape is inserted into housing ass'y)

1) Remove the Holder Worm ❶ and the gear worm ❷. (See Fig. 2)
2) Turn the Gear Worm Wheel ❸ counterclockwise in the direction of arrow with screw driver. (See Fig. 2)
3) When Slider S, T are approached in the position of unloading, rotate holder Clutch counterclockwise after inserting screw driver in the hole of frame's bottom in order to wind the unwounded tape. (Refer to Fig. 3)
   (If you rotate Gear Worm Wheel continuously when tape is in state of unwinding, you may cause a tape contamination by grease and tape damage. Be sure to wind the unwounded tape in the state of set horizontally.)
4) Rotate Gear Worm Wheel ❸ counterclockwise using screw driver again up to the state of eject mode and then pick out the tape. (Refer to Fig. 2)

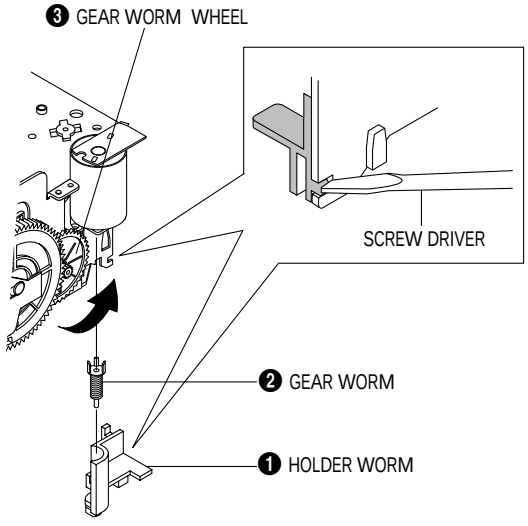



Fig. 2

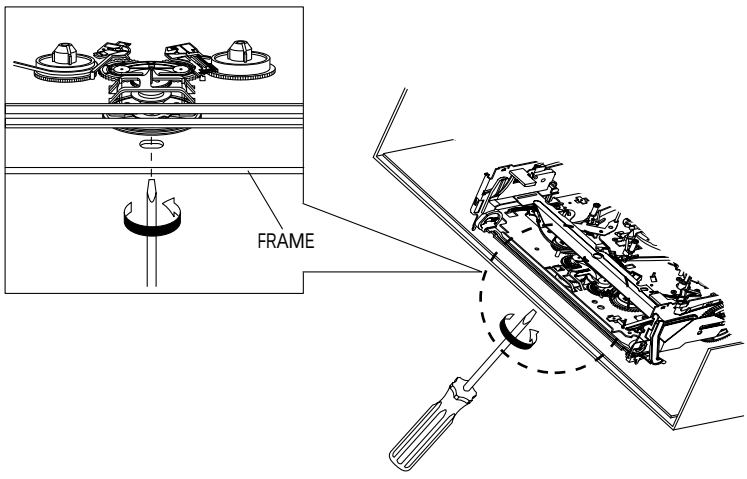



Fig. 3

# 1. Precautions

1. Be sure that all of the built-in protective devices are replaced. Restore any missing protective shields.

2. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including : control knobs and compartment covers.

3. Make sure that there are no cabinet openings through which people--particularly children --might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.

   If the measured resistance is less than 1.0 megohm or greater than 5.2 megohms, an abnormality exists that must be corrected before the unit is returned to the customer.

4. Leakage Current Hot Check (See Fig. 1-1) :
   Warning : Do not use an isolation transformer during this test. Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, Leakage Current for Appliances), and Underwriters Laboratories (UL Publication UL1410, 59.7).

5. With the unit completely reassembled, plug the AC line cord directly the power outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including : antennas, handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

6. X-ray Limits :
   The picture tube is designed to prohibit X-ray emissions. To ensure continued X-ray protection, replace the picture tube only with one that is the same type as the original.

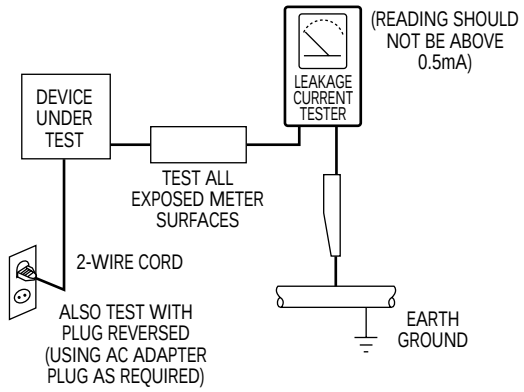

(READING SHOULD NOT BE ABOVE 0.5mA)
LEAKAGE CURRENT TESTER
DEVICE UNDER TEST
TEST ALL EXPOSED METER SURFACES
2-WIRE CORD
ALSO TEST WITH PLUG REVERSED (USING AC ADAPTER PLUG AS REQUIRED)
EARTH GROUND

Fig. 1-1 AC Leakage Test

7. Antenna Cold Check :
   With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. Connect one lead of the ohmmeter to an AC prong.
   Connect the other lead to the coaxial connector.

8. High Voltage Limit :
   High voltage must be measured each time servicing is done on the B+, horizontal deflection or high voltage circuits.

   Heed the high voltage limits. These include the X-ray protection Specifications Label, and the Product Safety and X-ray Warning Note on the service data schematic.

9. Some semiconductor ("solid state") devices are easily damaged by static electricity.
   Such components are called Electrostatically Sensitive Devices (ESDs); examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.

10. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging Wrist-strap device. (Be sure to remove it prior to applying power--this is an electric shock precaution.)

11. High voltage is maintained within specified limits by close-tolerance, safety-related components and adjustments. If the high voltage exceeds the specified limits, check each of the special components.

12. Design Alteration Warning :
    Never alter or add to the mechanical or electrical design of this unit. Example : Do not add auxiliary audio or video connectors.
    Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.

13. Hot Chassis Warning :
    Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord. If an isolation transformer is not used, these units may be safely serviced only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC source.

    To confirm that the AC power plug is inserted correctly, do the following : Using an AC voltmeter, measure the voltage between the chassis and a known earth ground. If the reading is greater than 1.0V, remove the AC power plug, reverse its polarity and reinsert. Re-measure the voltage between the chassis and ground.

14. Some TV chassis are designed to operate with 85 volts AC between chassis and ground, regardless of the AC plug polarity. These units can be safely serviced only if an isolation transformer inserted between the receiver and the power source.

15. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.

16. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

17. Observe the original lead dress, especially near the following areas : Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that leads and components do not touch thermally hot parts.

18. Picture Tube Implosion Warning :
    The picture tube in this receiver employs "integral implosion" protection. To ensure continued implosion protection, make sure that the replacement picture tube is the same as the original.

19. Do not remove, install or handle the picture tube without first putting on shatterproof goggles equipped with side shields. Never handle the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; do not try to remove such "permanently attached" yokes from the picture tube.

20. Product Safety Notice :
    Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original--even if the replacement is rated for higher voltage, wattage, etc.

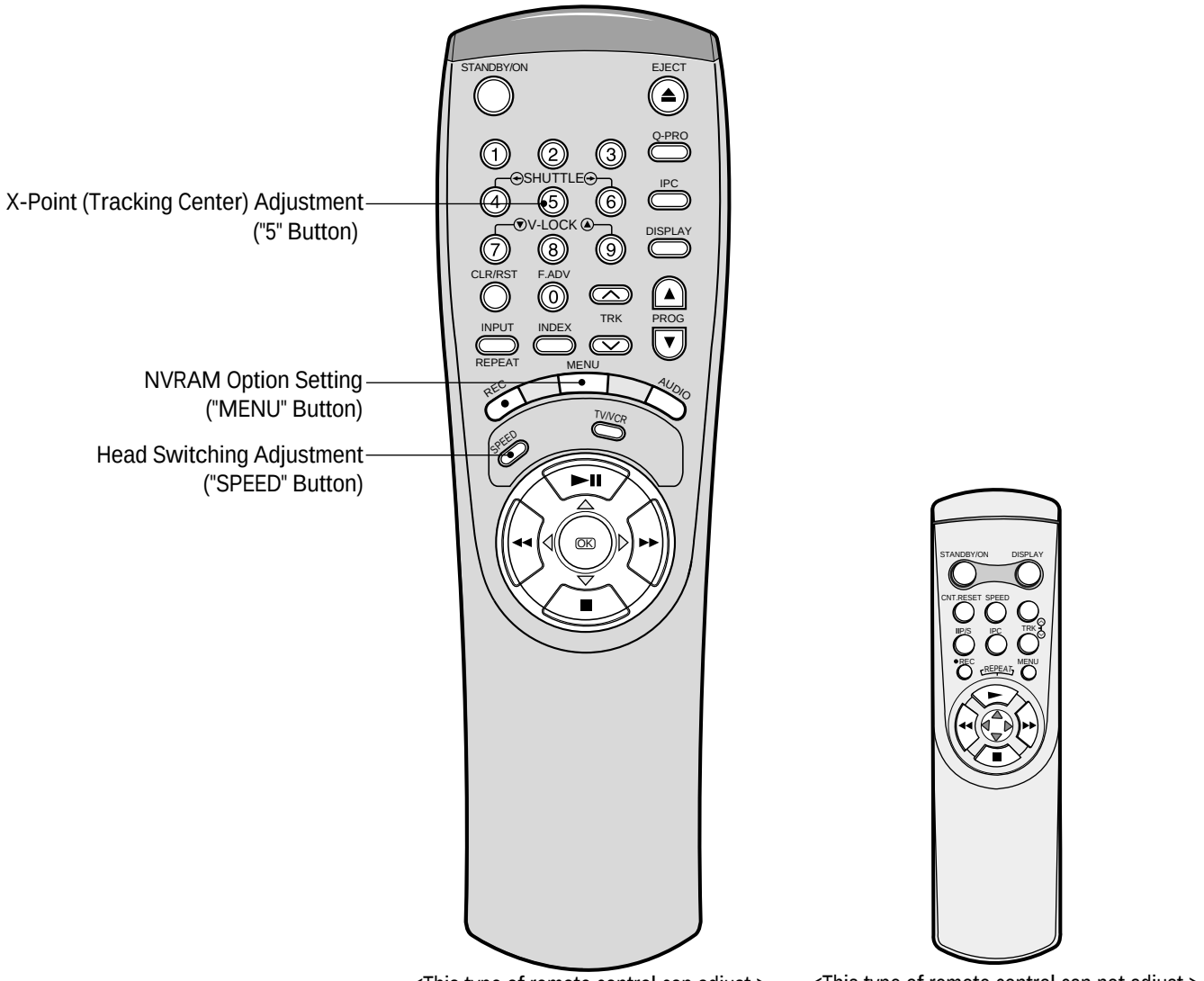
    Components that are critical for safety are indicated in the circuit diagram by shading, ( ⚠ or ⚠ ).
    Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

# 2. Alignment and Adjustment

## 2-1 Reference

1) X-Point (Tracking center) adjustment, “Head switching adjustment” and “NVRAM option setting” can be adjusted with remote control.
2) When replacing the Micom (IC601) and NVRAM (IC605 ; EEPROM) be sure to adjust the “Head switching adjustment” and “NVRAM option setting”.
3) When replacing the cylinder ass’y, be sure to adjust the “X-Point” and “Head switching adjustment”.
4) Among Samsung VCR remote control used for adjustment as a accessory, only the remote control that has figures buttons (0 ~ 9) is available for all adjustment regardless of chassis.
5) How to adjustment.
   - Press the “SW718 (TEST)” button on Main PCB to set the adjustment mode.
   - If the corresponding adjustment button is pressed, the adjustment is performed automatically.
   - If the adjustment is completed, be sure to turn the power off.

### 2-1-1 Location of adjustment button of remote control




<This type of remote control can adjust.>

<This type of remote control can not adjust.>

**Remote Control for adjustment is not supplied as a Service Jig.**

Fig. 2-1

## 2-1-2 SW718 (TEST) location for adjustment mode setting

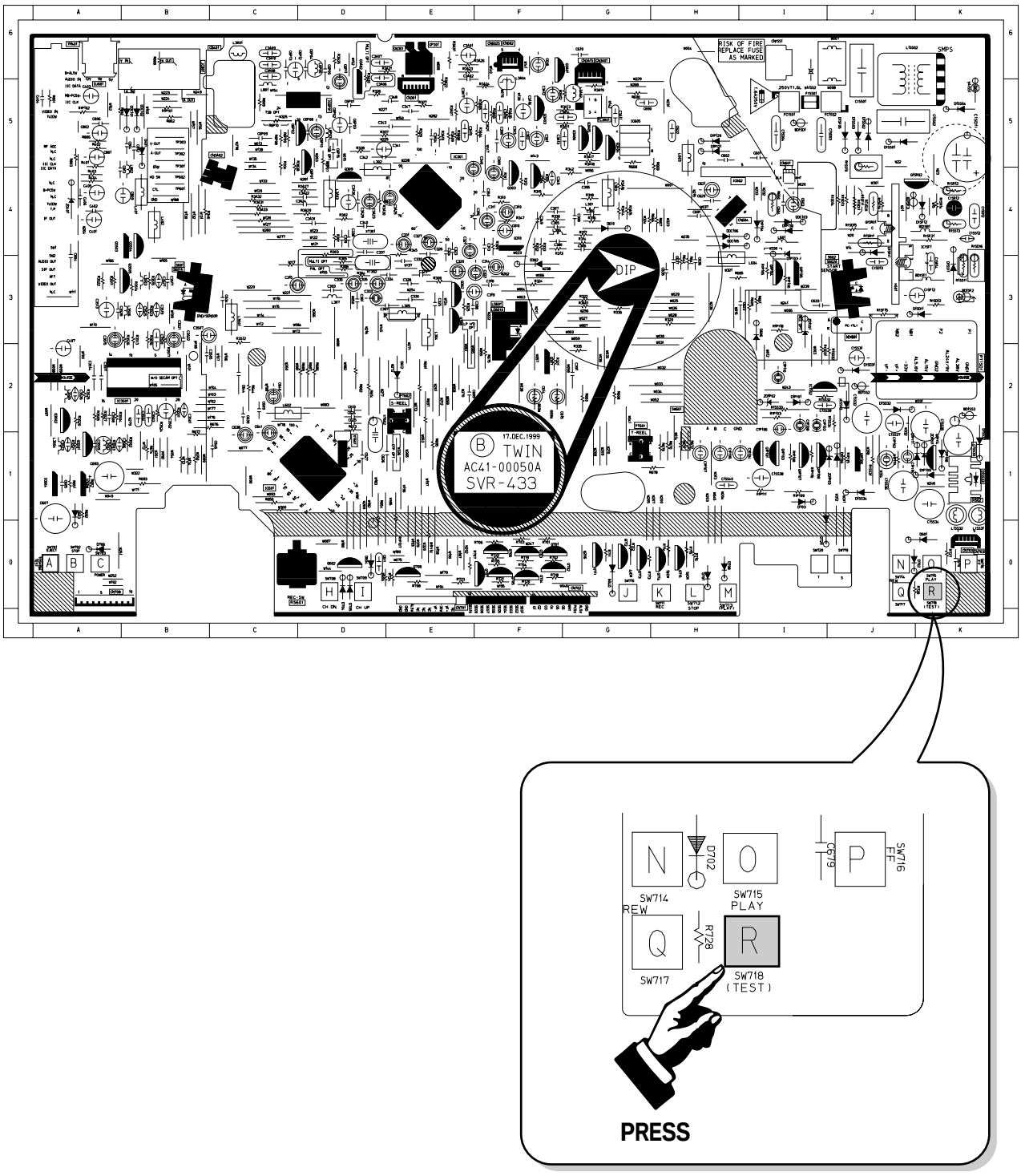



Fig. 2-2 Main PCB (Top View)

## 2-2 Mechanical Adjustment

Note : Refer to the Mechanical Manual “DX-9R (AC68-00001A)” for the adjustment and confirmation of ass’y full deck.

### 2-2-1 The number and position of test point

| | |
|---|---|
| **Test point :** | TP601 (Control Pulse) |
| | TP602 (H’D S/W -Trigger) |
| | TP301 (Envelope) |
| | TP302 (Audio output) |
| | TP303 (Video output) |

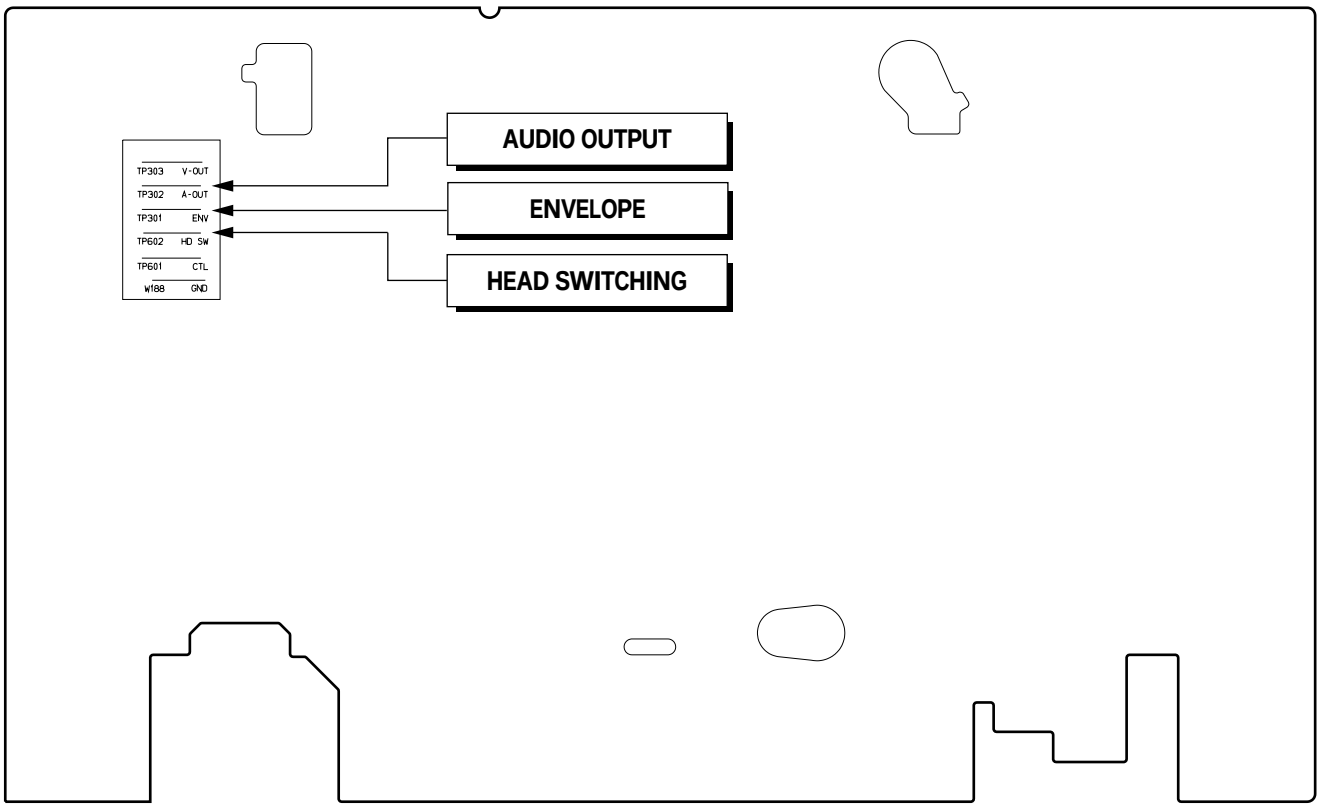



Fig. 2-3 Location of Test point (Main PCB-Top View)

### 2-2-2 ACE Head Position (X-Point) Adjustment

**(See the 2-2-1(d) ACE Head Position (X-Point) Adjustment on page 2-2 of the Mechanical Manual)**

1) Playback the alignment tape (Color bar).
2) Press the “SW718 (TEST)” button on Main PCB to set the adjustment mode. (See Fig. 2-2)
3) Press the “5” button of remote control then adjustment is operated automatically. (See Fig. 2-1)
4) Connect the CH-1 probe to TP301 (Envelope) the CH-2 probe to TP602 (H’D switching pulse) and then trigger to CH-1.
5) Insert the (-) driver into the X-Point adjustment hole and adjust it so that envelope waveform is maximum.
6) Turn the Power off.

## 2-3 Head Switching Point Adjustment

1) Playback the alignment tape.
2) Press the “SW718 (TEST)” button on Main PCB to set the adjustment mode. (See Fig. 2-2)
3) Press the “SPEED” button of remote control then adjustment is operated automatically. (See Fig. 2-1)
4) Turn the Power off.

## 2-4 NVRAM Option Setting

1) NVRAM Option is adjusted at production line basically.
2) In case Micom (IC601) and NVRAM (IC605 ; EEPROM) is replaced, be sure to set the corresponding option number of the repaired model. (If the option is not set, the unit is not operated.)

1) Press the “SW718 (TEST)” button on Main PCB to set the adjustment mode. (See Fig. 2-2)
2) Press the “MENU” button on the remote control about 5 seconds then option setting display is appeared. (See Fig. 2-4 and 2-5)
3) Select the option number (See Table 2-1 ; Page 2-5) of corresponding model with “FF” and “REW” button on the remote control.
4) If selecting the option number is completed, press the “PLAY” button of remote control. (If “PLAY” button is pressed, the selected number is changes reversed color. ; See Fig. 2-4 and 2-5)
5) Press the “OK (VCR)”, “MENU (VCP)” button of remote control again to store the option number. (“PLEASE WAIT” is displayed for a second as shown Fig. 2-6, 2-7 and this setting is completed.)
6) Turn the Power off.

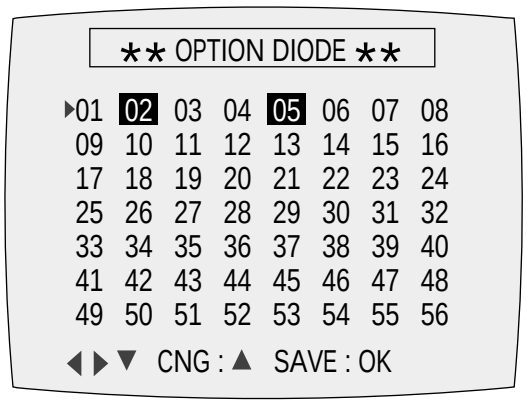



Fig. 2-4 (VCR)

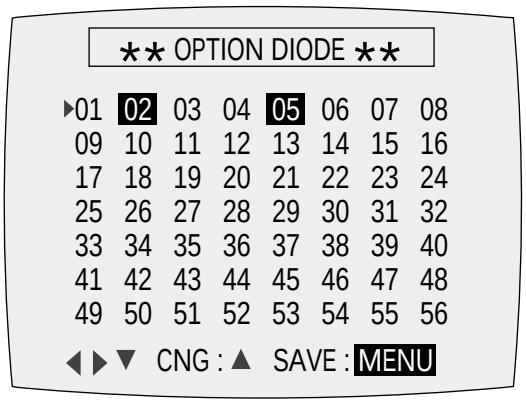



Fig. 2-5 (VCP)

Fig. 2-6 (VCR)

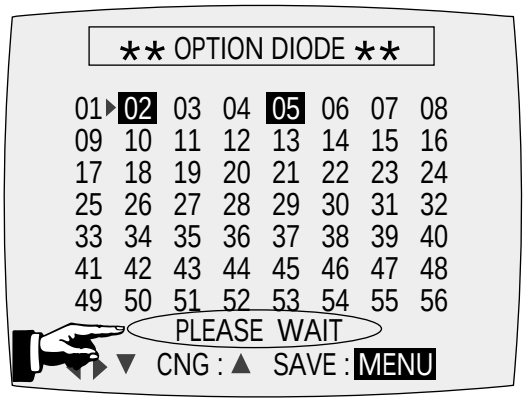



Fig. 2-7 (VCP)

<Table 2-1>

| COUNTRY | MODELS | OPTION NUMBER |
|---|---|---|
| RUSSIA | SVR-433 | 6, 8, 11, 12, 17, 18, 22, 25, 30, 31, 32, 35, 41, 42, 45, 50, 54 |
| | SVR-233 | 6, 8, 11, 17, 18, 22, 25, 30, 31, 32, 34, 41, 42, 45, 50, 54 |
| | SVR-230B | 8, 11, 17, 18, 22, 25, 30, 31, 32, 34, 37, 38, 41, 42, 50, 54 |
| | SVR-230W | 8, 11, 17, 18, 22, 25, 30, 31, 32, 34, 37, 38, 41, 42, 50, 54 |
| | SVR-2301 | 8, 11, 17, 18, 22, 25, 30, 31, 32, 34, 37, 38, 42, 50, 54 |
| | SVR-131 | 8, 9, 10, 11, 17, 18, 22, 30, 31, 32, 34, 39, 42, 45 |

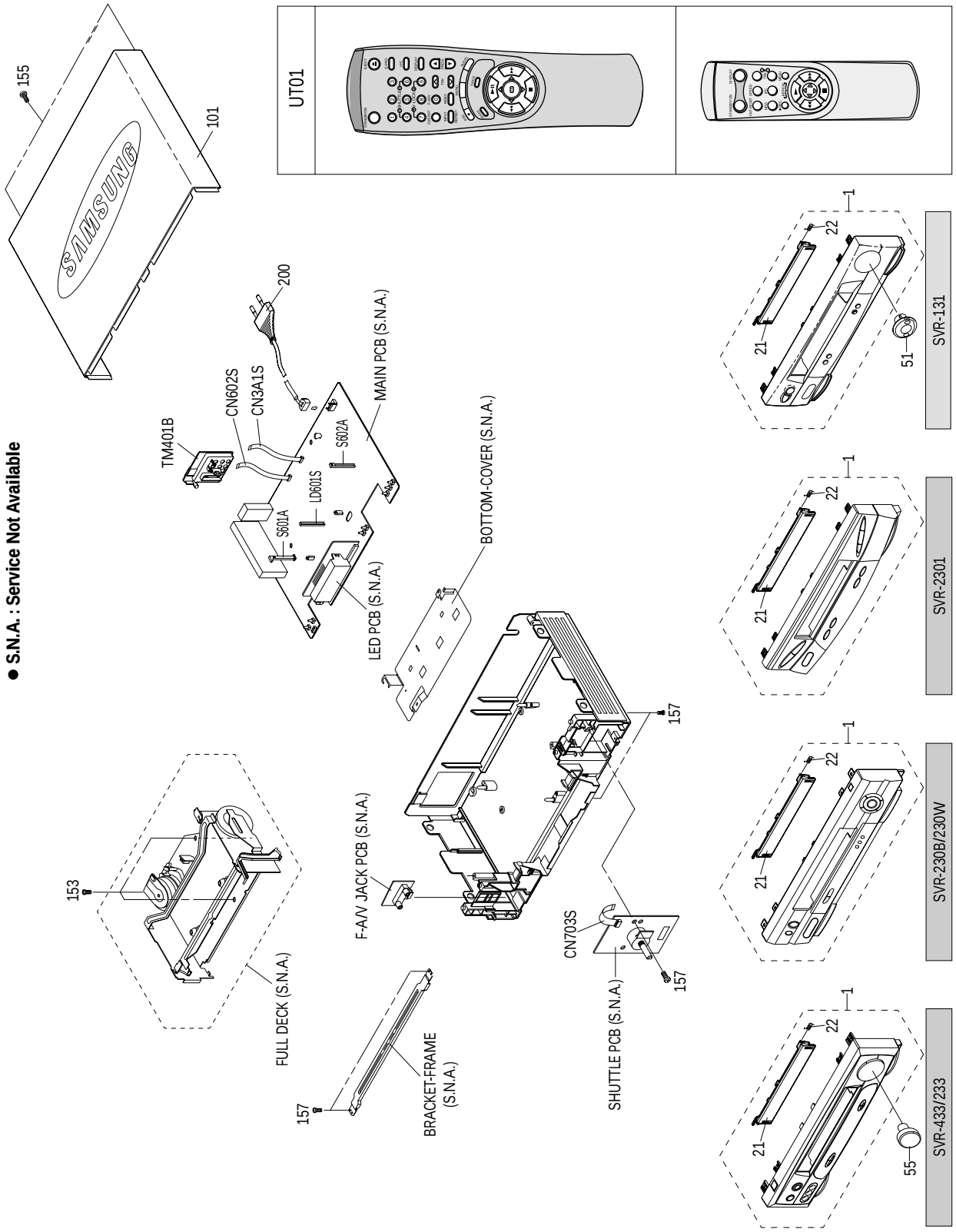
# MEMO

# 3. Exploded View and Parts List


Page

3-1 Cabinet Assembly - - -

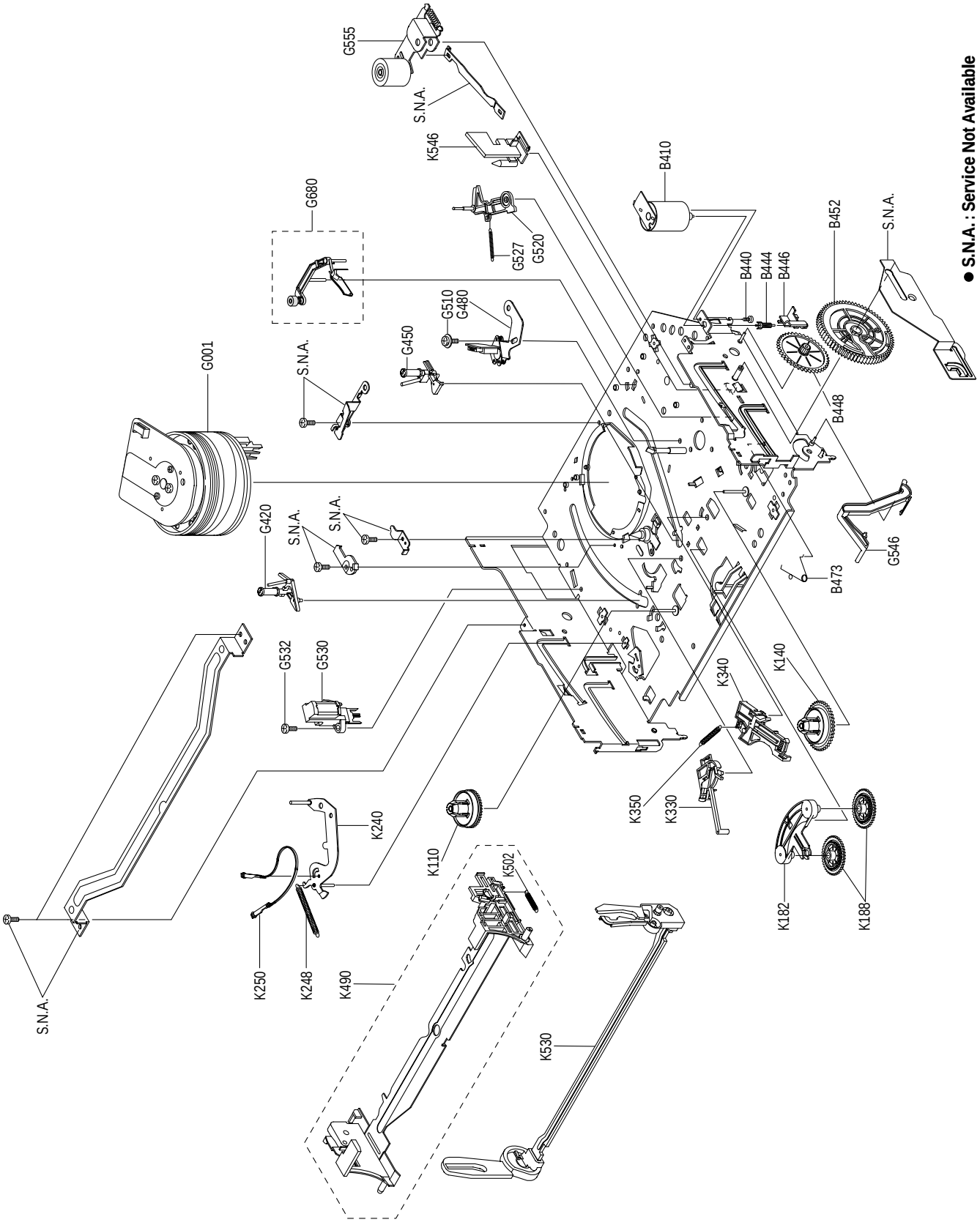
# 3-1 Cabinet Assembly



| Loc. No | Parts No. | Description ; Specification | Remark |
|---|---|---|---|
| 1 | **Refer to table below** | ASSY-PANEL FRONT;ABS94HB,- | |
| 21 | **Refer to table below** | DOOR-CASSETTE;-,ABS,-,T2.5,189*28,GRAY,- | |
| 22 | AC61-62032A | SPRING-MASK;X-9,-,SUS,-,4.4,-,SV-C130 | |
| 51 | **Refer to table below** | KNOB-SHUTTLE;-,ABS,-,GRAY,HB,SV-130G,- | |
| 101 | **Refer to table below** | CABINET-TOP;X-9,SECC,PCM,0.5,360*208*41, | |
| 153 | AC60-12126A | SCREW-BH;-,BH,-,4*12,FE,FZY,-,-,- | |
| 155 | AC60-12134A | SCREW-TAP BH;-,BH,-,2-4X16,-,FE | |
| 157 | AC60-10063A | SCREW-TAPTITE;BH,+,-,M3,L12,ZPC3,SWRCH18 | |
| 200 | AC39-10019A | POWER CORD;KKP-419C,H03VVH2-F,VDE/KEMA-K | |
| CN3A1S | 3809-001110 | CABLE-FLAT;30V,80C,150mm,7P,1.25mm,UL289 | |
| CN602S | 3809-001112 | CABLE-FLAT;30V,80C,130mm,5P,1.25mm,UL289 | |
| CN703S | 3809-001112 | CABLE-FLAT;30V,80C,130mm,5P,1.25mm,UL289 | SHUTTLE MODELS ONLY |
| LD601A | AC61-21009A | HOLDER-LED;-,POM(M90-44),-,BLK,-,X-9 | |
| S601A | AC61-21008A | HOLDER-SENSOR;-,POM(M90-44),-,BLK,-,X-9 | |
| S602A | AC61-21008A | HOLDER-SENSOR;-,POM(M90-44),-,BLK,-,X-9 | |
| TM401B | **Refer to table below** | CON-BOARD ASSY;-,HIPS,-,T2,61,-,BLK,-,-, | |
| UT01 | **Refer to table below** | REMOCON-ASSY;-,NR4834,-,34KEY,TWIN_M_PAL | |

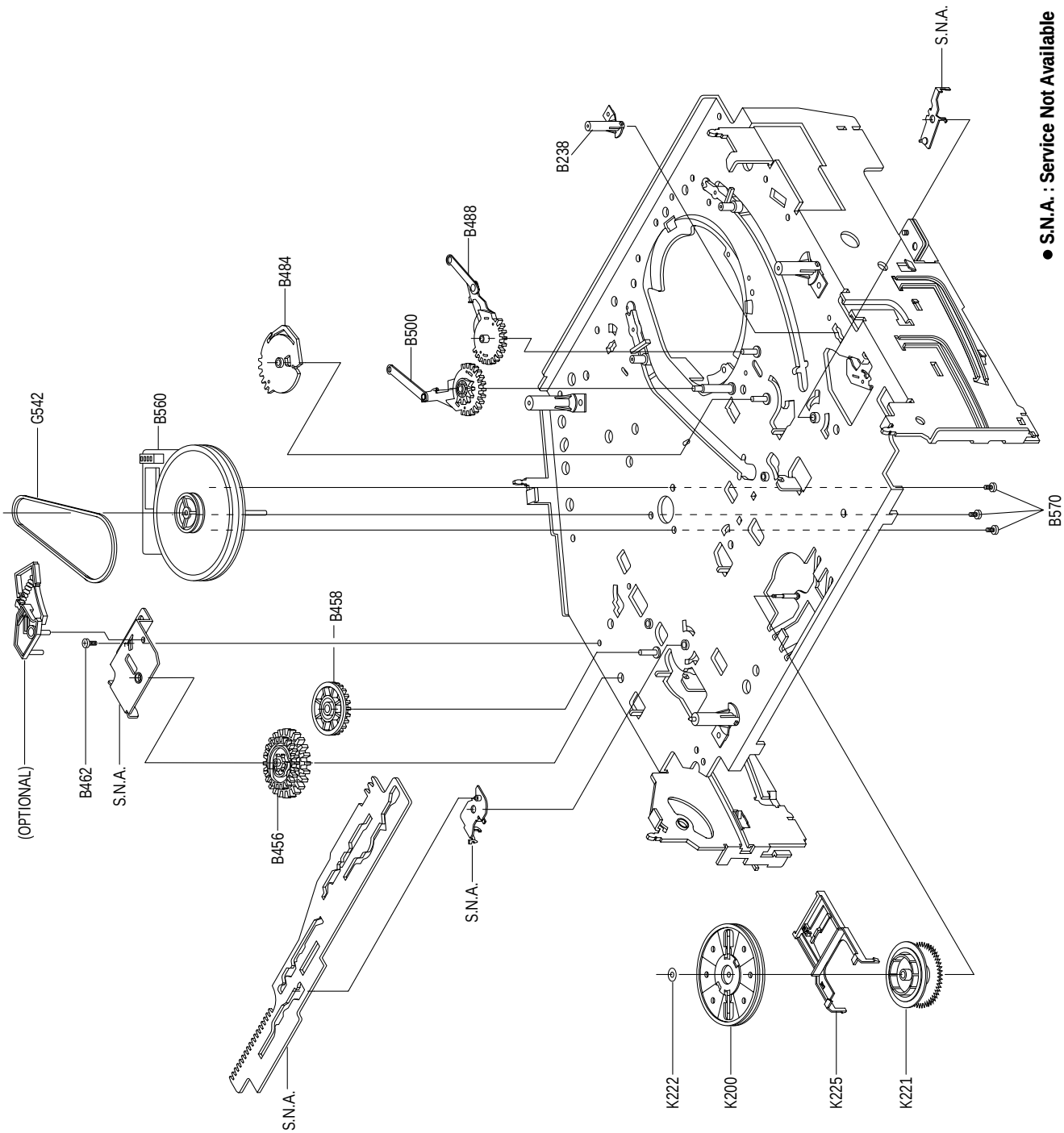
| MODELS | 1 | 21 | 51 | 101 | TM401B | UT01 |
|---|---|---|---|---|---|---|
| SVR-433 | AC97-00872A | AC64-00203N | AC64-00319A | AC64-30892A | AC61-11063C | AC59-00016F |
| SVR-233 | AC97-00873A | AC64-00203P | AC64-00319A | AC64-30892A | AC61-11063C | AC59-00016F |
| SVR-230B | AC97-00621H | AC64-00177X | - | AC64-30892A | AC61-11063C | AC59-00016F |
| SVR-230W | AC97-00621Y | AC64-00177D | - | AC64-00293D | AC61-11063C | AC59-00016H |
| SVR-2301 | AC97-00850A | AC64-00097P | - | AC64-30892A | AC61-11063C | AC59-00017B |
| SVR-131 | AC97-00621J | AC64-00069D | AC64-00216G | AC64-30892A | AC61-11063C | AC59-00013C |

## 3-2 Mechanical Parts (Top Side)



| Loc. No | Parts No. | Description ; Specification | Remark |
|---|---|---|---|
| B410 | AC31-12016D | MOTOR-LOADING ASSY;-,SNHNE,-,- | |
| B440 | AC60-10515A | SCREW-MACHINE;-,PH,+,-,M3,L3,ZPC,-,YEL | |
| B444 | AC66-20571A | GEAR-WORM;-,POM SW-01,0.5,2,-,4.5,X-9 | |
| B446 | AC61-21005A | HOLDER-WORM;-,POM M90-44,-,-,-,X-9 | |
| B448 | AC66-20573A | GEAR-WORM WHEEL;-,POM SW-01,0.6,11,-,6.6 | |
| B452 | AC66-20575A | GEAR-FL CAM;-,POM SW-01,M0.6,Z88,-,PCD58 | |
| B473 | AC61-60559A | SPRING-PINCH DRIVE;-,TS,SUS304,PI0.5,OD4 | |
| G001 | AC97-00558A | ASSY-CYLINDER;CX-9T,PAL 4HD/DLC | (SVR-433) |
| | AC97-00554A | ASSY-CYLINDER;CX-9T, PAL 2HD(LP)/DLC | (SVR-233/230B/230W/2301) |
| | AC97-00555A | ASSY-CYLINDER;CX-9T, PAL 2HD(LP) | (SVR-131) |
| G420 | AC66-80142A | SLIDER-SUPPLY ASSY;-,X-9(TS),-,-,-,X-9 | |
| G450 | AC66-80141A | SLIDER-TAKE UP ASSY;-,X-9(TS),-,-,-,X-9 | |
| G480 | AC33-00003A | HEAD-ACE ASSY;SHINHEUNG;-,-,-,-,X-9 | |
| G510 | 6006-001075 | SCREW-ASSY TAPT;WSP,PH,+,M2.6,L5.0,ZPC | |
| G520 | AC66-30539A | LEVER-#9 GUIDE ASSY;-,X-9(TS),-,-,-,X-9 | |
| G527 | AC61-60553A | SPRING-#9 GUIDE;-,ES,SUS304-WPB,OD3.1,0. | |
| G530 | AC33-00002A | HEAD-FE;-,HVFHP0038A,-,-,-,X-9 | |
| G532 | AC60-10519A | SCREW-TAP TITE;-,PH,+,-,M2.6,L8,ZPC | |
| G546 | AC66-30535A | LEVER-FL DOOR;-,POM M90-44,-,-,BLK,X-9 | |
| G555 | AC59-90403A | UNIT-PINCH ASSY;X-9,- | |
| G680 | AC66-30557A | LEVER-H/CLEANER ASSY;-,POM+URETHANE,-,- | (OPTIONAL) |
| K110 | AC66-10267A | REEL-DISK S;-,POM M90-44,-,-,X-9 | |
| K140 | AC66-10268A | REEL-DISK T;-,POM M90-44,-,-,X-9 | |
| K182 | AC66-30524A | LEVER-IDLER;-,POM9044,-,-,-,- | |
| K188 | AC66-20577A | GEAR-IDLER;-,PEBAX 7033,-,-,-,-,X-9 | |
| K240 | AC66-30538A | LEVER-TENSION ASSY;-,X-9(TS),-,-,-,X-9 | |
| K248 | AC61-60554A | SPRING-TENSION LEVER;-,ES,SUS304-WPB,OD3 | |
| K250 | AC63-12029A | BAND-BRAKE ASSY;-,X-9(TS),-,-,-,X-9 | |
| K330 | AC66-30550A | LEVER-S.BRAKE ASSY;-,POM+SUS,-,-,-,X-9 | |
| K340 | AC66-30549A | LEVER-T.BRAKE ASSY;-,POM+SUS,-,-,-,X-9 | |
| K350 | AC61-60564A | SPRING-BRAKE;-,TENSION,SWP-A,0.25,3,-,X- | |
| K490 | AC61-21010B | HOLDER-CASS ASSY;-,SECC+POM+SUS,-,-,-,X- | |
| K502 | AC61-60561A | SPRING-FL.LEVER-LR;-,ES,SUS304 WPB,PI2.7 | |
| K530 | AC66-30546A | LEVER-FL.ARM ASS'Y;-,SECC+POM+SUS,-,-,-, | |
| K546 | AC61-50658A | GUIDE-CASS. DOOR;-,POM M90-44,-,-,NTR,-, | |

# 3-3 Mechanical Parts (Bottom Side)



| Loc. No | Parts No. | Description ; Specification | Remark |
|---|---|---|---|
| B238 | AC61-50660A | SLEEVE-TENSION;-,POM M90-44,-,-,ID3,-,- | |
| B456 | AC66-20576A | GEAR-JOINT 1;-,POM SW-01,M1.0,Z22,-,PCD2 | |
| B458 | AC66-20574A | GEAR-JOINT 2;-,POM SW-01,M1.0,Z14,-,PCD1 | |
| B462 | AC60-10517A | SCREW-TAP TITE;-,PH,+,-,M2.6,L5,ZPC,-,YE | |
| B484 | AC66-20580A | GEAR-LOADING DRIVE;-,POM SW-01,M1.0,Z32, | |
| B488 | AC66-30543A | LEVER-S LOAD ASSY;-,-,-,-,-,X-9 | |
| B500 | AC66-30542A | LEVER-T LOAD ASSY;-,-,-,-,-,X-9 | |
| B560 | AC31-00005A | MOTOR-CAPSTAN;-,F2QSB02,-,- | |
| B570 | AC60-10514A | SCREW-CAPSTAN;-,PH,+,M2.6,L6,- | |
| G542 | AC66-60051A | BELT-PULLEY;-,5CM-70,2 * 2,-,71.3,-,X-9 | |
| K200 | AC61-21012A | HOLDER-CLUTCH ASSY;-,-,-,-,-,X-9 | |
| K221 | AC66-20581A | GEAR-CENTER ASSY;-,POM,M=O.5,-,HIGHT T., | |
| K222 | AC60-30306A | WASHER-SLIT;-,-,ID2.1,OD5.0,T0.5,-,POLYS | |
| K225 | AC66-30547A | LEVER-UP DOWN ASSY;-,POM+SUS,-,-,-,X-9 | |

# MEMO

# 4. Electrical Parts List

| Loc.No | Part No | Description ; Specification | Remark |
|---|---|---|---|
| - | - | **ASSY PCB-MAIN** | **S.N.A.** |
| **S.M.P.S. PARTS** | | | |
| BD1SD1 | AC27-92001M | INDUCTOR;70UH-M RT BFS3565R2F;-,-,-,- | |
| BD1SF1 | 3301-000297 | CORE-FERRITE BEAD;AA,3.6x1.2x5.7mm,1400, | SVR-2301 NOT USER |
| BD1SF3 | AC27-92001M | INDUCTOR;70UH-M RT BFS3565R2F;-,-,-,- | SVR-2301 NOT USER |
| BD1SR1 | 3301-000297 | CORE-FERRITE BEAD;AA,3.6x1.2x5.7mm,1400, | SVR-2301 ONLY |
| BD1SS3 | AC27-92001M | INDUCTOR;70UH-M RT BFS3565R2F;-,-,-,- | |
| C1SD03 | 2201-000828 | C-CERAMIC,DISC;3.3nF,20%,400V,Y5U,TP,15x | |
| C1SD04 | 2201-000828 | C-CERAMIC,DISC;3.3nF,20%,400V,Y5U,TP,15x | |
| C1SD11 | 2401-003303 | C-AL;82uF,20%,400V,GP,BK,22X30,10 | |
| C1SD11 | 2401-003302 | C-AL;47uF,20%,400V,GP,TP,18X31.5,7. | SVR-2301 ONLY |
| C1SD12 | 2305-001029 | C-FILM,MPEF;10nF,10%,630V,TP,12x9x12.5,5 | |
| C1SD12 | 2201-000828 | C-CERAMIC,DISC;3.3nF,20%,400V,Y5U,TP,15x | SVR-2301 ONLY |
| C1SD13 | 2301-000361 | C-FILM,PEF;1.2nF,10%,50V,TP,-,5mm | SVR-2301 ONLY |
| C1SD13 | 2201-000376 | C-CERAMIC,DISC;0.22nF,5%,50V,SL,TP,6.3x3 | |
| C1SF12 | 2401-001200 | C-AL;33uF,20%,50V,WT,TP,6.3x11,5 | SVR-2301 NOT USER |
| C1SR12 | 2401-000905 | C-AL;22uF,20%,16V,BP,-,6x11,2.5mm | SVR-2301 ONLY |
| C1SR14 | 2301-000445 | C-FILM,PEF;4.7nF,5%,50V,TP,5.5x7x3mm,5mm | SVR-2301 ONLY |
| C1SS01 | 2305-001021 | C-FILM,MPEF;100nF,20%,275V,TP,17.5x7x13. | ⚠ |
| C1SS02 | 2305-001021 | C-FILM,MPEF;100nF,20%,275V,TP,17.5x7x13. | ⚠ |
| C1SS12 | 2201-000129 | C-CERAMIC,DISC;0.1nF,10%,1kV,Y5P,TP,7x4, | |
| C1SS31 | 2401-000385 | C-AL;10uF,20%,100V,GP,TP,6.3x11,5 | |
| C1SS33 | 2401-001126 | C-AL;330uF,20%,25V,WT,TP,10x12.5,5 | |
| C1SS34 | 2401-003477 | C-AL;330UF,20%,25V,LZ,TP,10X12.5MM, | |
| C1SS35 | 2401-003480 | C-AL;1000UF,20%,10V,LZ,TP,10X16MM,5 | |
| C1SS36 | 2401-003480 | C-AL;1000UF,20%,10V,LZ,TP,10X16MM,5 | |
| C1SS39 | 2301-000129 | C-FILM,PEF;100nF,5%,50V,TP,10X9X4.3X5,5m | |
| CN1SS1 | 3711-000178 | CONNECTOR-HEADER;1WALL,2P,1R,3.96mm,STRA | |
| D1SD11 | 0402-001195 | DIODE-RECTIFIER;F1T4,400V,1.0A,TS-1,TP | |
| D1SD31 | 0402-001195 | DIODE-RECTIFIER;F1T4,400V,1.0A,TS-1,TP | |
| D1SF05 | 0402-001196 | DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP | SVR-2301 NOT USER |
| D1SF12 | 0402-001195 | DIODE-RECTIFIER;F1T4,400V,1.0A,TS-1,TP | SVR-2301 NOT USER |
| D1SR11 | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200mA,DO-35, | SVR-2301 ONLY |
| D1SS01 | 0402-001196 | DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP | |
| D1SS02 | 0402-001196 | DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP | |
| D1SS03 | 0402-001196 | DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP | |
| D1SS04 | 0402-001196 | DIODE-RECTIFIER;1T5,600V,1A,TS-1,TP | |
| D1SS11 | 0402-000276 | DIODE-RECTIFIER;UF4007,1KV,1A,DO-41,TP | |
| D1SS32 | 0402-001194 | DIODE-RECTIFIER;UG2D,200V,2A,DO-204AC,TP | |
| D1SS33 | 0402-000431 | DIODE-RECTIFIER;FML-M02S,200V,2.5A,TO-22 | |
| F1SS01 | 3601-001208 | FUSE-CARTRIDGE;250V,1.6A,TIME-LAG,GLASS | ⚠ |
| IC1SF1 | 1203-001802 | IC-PWM CONTROLLER;STR-G6551,TO-220F,5P,- | SVR-2301 NOT USER |
| IC1SS1 | 0604-001028 | PHOTO-COUPLER;TR,50-600%,250mW,DIP-4,ST | ⚠ |
| IC1SS2 | AC14-12006D | IC;KA431Z,TO-92,TAPING | |
| L1SS02 | AC29-30050C | FILTER-LINE NOISE;-,25MH,0.35A,AC250V,BS | ⚠ |
| L1SS31 | AC27-12001N | COIL-CHOKE;10UH-15%,RA,K-30,Q80,150KHZ,- | |
| L1SS32 | AC27-12001N | COIL-CHOKE;10UH-15%,RA,K-30,Q80,150KHZ,- | |
| PT1SD1 | AC26-00001D | TRANS-SWITCHING;-,100V-240V,DEMCO,EE2821 | ⚠ |
| PT1SD1 | AC26-00001E | TRANS-SWITCHING;-,230V,DEMCO,EE2821,1.3M ⚠ | SVR-2301 ONLY |
| Q1SR01 | 0502-001050 | TR-POWER;2SC4517A,NPN,30W,TO-220,ST,10- | SVR-2301 ONLY |
| Q1SR02 | 0501-000442 | TR-SMALL SIGNAL;KTC3203-Y,NPN,400MW,T0-9 | SVR-2301 ONLY |
| R1SD11 | 2001-000305 | R-CARBON;110KOHM,5%,1/8W,AA,TP,1.8X3.2MM | SVR-2301 ONLY |
| R1SD12 | 2001-000869 | R-CARBON;56OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R1SD12 | 2001-000003 | R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm | SVR-2301 ONLY |
| R1SD13 | 2001-000076 | R-CARBON;47KOHM,5%,1/4W,AA,TP,2.4X6.4MM | |
| R1SD13 | 2001-000305 | R-CARBON;110KOHM,5%,1/8W,AA,TP,1.8X3.2MM | SVR-2301 ONLY |
| R1SD14 | 2001-000076 | R-CARBON;47KOHM,5%,1/4W,AA,TP,2.4X6.4MM | |
| R1SD14 | 2001-000305 | R-CARBON;110KOHM,5%,1/8W,AA,TP,1.8X3.2MM | SVR-2301 ONLY |
| R1SD15 | 2001-000076 | R-CARBON;47KOHM,5%,1/4W,AA,TP,2.4X6.4MM | |
| R1SD15 | 2001-000305 | R-CARBON;110KOHM,5%,1/8W,AA,TP,1.8X3.2MM | SVR-2301 ONLY |
| R1SD16 | 2003-000994 | R-METAL OXIDE(S);33Kohm,5%,2W,AF,TP,3.9x | |
| R1SD16 | 2006-000273 | R-CEMENT;27Kohm,5%,2W,CA,BK,6.4x27x6.4m | SVR-2301 ONLY |
| R1SD31 | 2001-000780 | R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R1SD31 | 2001-000515 | R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM | SVR-2301 ONLY |
| R1SD32 | 2001-000429 | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R1SD32 | 2001-000221 | R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M | SVR-2301 ONLY |
| R1SF11 | 2001-000076 | R-CARBON;47KOHM,5%,1/4W,AA,TP,2.4X6.4MM | SVR-2301 NOT USER |
| R1SF15 | 2001-000591 | R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2M | SVR-2301 NOT USER |
| R1SF19 | 2001-000429 | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM | SVR-2301 NOT USER |
| R1SF20 | 2003-000105 | R-METAL OXIDE;0.33ohm,5%,2W,AD,TP,6x16mm | SVR-2301 NOT USER |
| R1SF21 | 2001-000096 | R-CARBON(S);1MOHM,5%,1/2W,AA,TP,2.4X6.4M | SVR-2301 NOT USER |
| R1SR11 | 2003-000119 | R-METAL OXIDE;0.68ohm,5%,2W,AE,TP,6x16mm | SVR-2301 ONLY |
| R1SR12 | 2003-000264 | R-METAL OXIDE;300ohm,5%,1W,AD,TP,4.3x12m | SVR-2301 ONLY |
| R1SR14 | 2001-000003 | R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm | SVR-2301 ONLY |
| R1SS10 | 2006-000262 | R-CEMENT;2.7ohm,10%,2W,CB,TP,7.5x11x20. | |
| R1SS11 | 2003-000994 | R-METAL OXIDE(S);33Kohm,5%,2W,AF,TP,3.9x | SVR-2301 NOT USER |
| R1SS13 | 2003-000148 | R-METAL OXIDE;100OHM,5%,2W,AE,TP,6X16MM | |
| R1SS32 | 2001-000429 | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R1SS33 | 2004-000869 | R-METAL;3Kohm,1%,1/8W,AA,TP,1.8x3.2mm | |
| R1SS34 | 2004-000459 | R-METAL;2.2Kohm,1%,1/8W,AA,TP,1.8x3.2m | |
| VA1SS1 | 1405-001026 | VARISTOR;470V,600A,9x7mm,TP | ⚠ |
| ZD1SS1 | 0403-000571 | DIODE-ZENER;UZP43B,43V,40-46V,1W,DO-41,T | SVR-2301 ONLY |
| **POWER DRIVE PARTS** | | | |
| C1P102 | 2401-001507 | C-AL;47uF,20%,16V,GP,TP,6.3x5,5 | |
| C1P103 | 2401-001915 | C-AL;1uF,20%,50V,GP,TP,3x5,5 | |
| C1P104 | 2401-002299 | C-AL;4.7uF,20%,50V,GP,TP,5x7,5 | |
| C1P105 | 2401-001507 | C-AL;47uF,20%,16V,GP,TP,6.3x5,5 | |
| C1P106 | 2401-001915 | C-AL;1uF,20%,50V,GP,TP,3x5,5 | |
| C1P107 | 2401-001507 | C-AL;47uF,20%,16V,GP,TP,6.3x5,5 | |
| C1P108 | 2401-001507 | C-AL;47uF,20%,16V,GP,TP,6.3x5,5 | |
| C1P115 | 2401-001915 | C-AL;1uF,20%,50V,GP,TP,3x5,5 | SVR-2301 ONLY |
| D1P101 | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200mA,DO-35, | |
| D1P103 | 0402-000127 | DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP | |
| D1P104 | 0402-000127 | DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP | |
| D1P106 | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200mA,DO-35, | |
| D1P108 | 0402-000127 | DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP | |
| D1P109 | 0402-000127 | DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP | SVR-131 NOT USER |
| D1P117 | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200mA,DO-35, | |
| D1P120 | 0402-000127 | DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP | |
| D1P121 | 0402-000127 | DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP | |
| Q1P101 | 0501-000616 | TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L | |
| Q1P103 | 0501-000616 | TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L | |
| Q1P106 | 0504-000142 | TR-DIGITAL;KSR2001,PNP,300MW,4.7K/4.7K,T | |
| Q1P107 | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T | |
| Q1P108 | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T | |
| Q1P114 | 0501-000616 | TR-SMALL SIGNAL;KSC2328A-Y,NPN,1W,TO-92L | |
| R1P101 | 2001-000855 | R-CARBON;560OHM,5%,1/4W,AA,TP,2.4X6.4MM | |
| R1P102 | 2001-000855 | R-CARBON;560OHM,5%,1/4W,AA,TP,2.4X6.4MM | |
| R1P103 | 2001-000034 | R-CARBON;220OHM,5%,1/4W,AA,TP,2.4X6.4MM | |
| R1P108 | 2001-000449 | R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R1P115 | 2001-000362 | R-CARBON;150OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R1P116 | 2001-000734 | R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R1P117 | 2001-000554 | R-CARBON;270OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R1P118 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| ZD1P01 | 0403-001211 | DIODE-ZENER;MTZJ12B,11.44-12.03V,500MW,D | |
| ZD1P02 | 0403-000717 | DIODE-ZENER;MTZJ5.1B,5.1V,4.94-5.2V,500m | |
| ZD1P03 | 0403-000720 | DIODE-ZENER;MTZJ9.1B,9.1V,8.57-9.01V,500 | |

| Loc.No | Part No | Description ; Specification | Remark |
|---|---|---|---|
| **SYSTEM CONTROL/SERVO PARTS** | | | |
| C601 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V | |
| C602 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V | |
| C603 | 2401-001545 | C-AL;47uF,20%,25V,GP,TP,6.3x7mm,2.5 | |
| C604 | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP, | |
| C605 | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP, | |
| C607 | 2401-000118 | C-AL;1000uF,20%,10V,GP,TP,10x12.5,5 | SVR-131 NOT USER |
| C609 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V | |
| C610 | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP, | |
| C611 | 2301-000392 | C-FILM,PEF;15nF,5%,50V,TP,6.5x8.5x3.2mm, | |
| C614 | 2401-001507 | C-AL;47uF,20%,16V,GP,TP,6.3x5,5 | |
| C615 | 2401-001507 | C-AL;47uF,20%,16V,GP,TP,6.3x5,5 | |
| C618 | 2401-001545 | C-AL;47uF,20%,25V,GP,TP,6.3x7mm,2.5 | |
| C619 | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP, | |
| C620 | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP, | |
| C621 | 2401-001545 | C-AL;47uF,20%,25V,GP,TP,6.3x7mm,2.5 | |
| C622 | 2301-001006 | C-FILM,PEF;68nF,5%,50V,TP,8x4x8.5mm,5mm | |
| C623 | 2202-000807 | C-CERAMIC,MLC-AXIAL;22nF,+80-20%,25V,Y5V | |
| C624 | 2202-000205 | C-CERAMIC,MLC-AXIAL;22pF,5%,50V,SL,TP,1. | SVR-131 NOT USER |
| C625 | 2202-000205 | C-CERAMIC,MLC-AXIAL;22pF,5%,50V,SL,TP,1. | SVR-131 NOT USER |
| C626 | 2202-000205 | C-CERAMIC,MLC-AXIAL;22pF,5%,50V,SL,TP,1. | |
| C627 | 2202-000205 | C-CERAMIC,MLC-AXIAL;22pF,5%,50V,SL,TP,1. | |
| C633 | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP, | |
| C634 | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP, | |
| C635 | 2202-000183 | C-CERAMIC,MLC-AXIAL;2.2NF,20%,16V,Y5R,TP | |
| C636 | 2202-000183 | C-CERAMIC,MLC-AXIAL;2.2NF,20%,16V,Y5R,TP | |
| C637 | 2202-000263 | C-CERAMIC,MLC-AXIAL;470pF,10%,50V,Y5P,TP | |
| C638 | 2401-000922 | C-AL;22uF,20%,16V,GP,TP,5x5,5 | |
| C639 | 2202-000121 | C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP | |
| C640 | 2401-001507 | C-AL;47uF,20%,16V,GP,TP,6.3x5,5 | |
| C641 | 2401-002165 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5 | |
| C644 | 2202-000806 | C-CERAMIC,MLC-AXIAL;220pF,10%,50V,Y5P,TP | |
| C646 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V | |
| C679 | 2202-000807 | C-CERAMIC,MLC-AXIAL;22nF,+80-20%,25V,Y5V | |
| C689 | 2202-000791 | C-CERAMIC,MLC-AXIAL;150pF,10%,50V,Y5P,TP | |
| C690 | 2301-001006 | C-FILM,PEF;68nF,5%,50V,TP,8x4x8.5mm,5mm | |
| C691 | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP, | |
| C693 | 2401-000118 | C-AL;1000uF,20%,10V,GP,TP,10x12.5,5 | |
| CN601 | AC39-20817S | LEAD CONNECTOR-ASSY;DP,SMH200-02,YBH200- | |
| CN602 | 3708-001163 | CONNECTOR-FPC/FC/PIC;5P,1.25mm,STRAIGHT, | |
| CN604 | 3711-003749 | CONNECTOR-HEADER;BOX,8P,2R,2mm,STRAIGHT, | |
| D601 | 0402-000127 | DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP | |
| D603 | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200mA,DO-35, | |
| D604 | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200mA,DO-35, | |
| D606 | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200mA,DO-35, | |
| D610 | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200mA,DO-35, | |
| D612 | 0402-000127 | DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP | |
| IC601 | AC09-00089A | IC-MICOM;uPD784927GF-159-3BA,784927GF-1 | |
| IC601 | AC09-00102A | IC-MICOM;uPD784927GF-153-3BA,784927GF-1 | SVR-131 ONLY |
| IC602 | 1003-001162 | IC-MOTOR DRIVER;KA3082,SIP,10PIN,25MIL,D | |
| IC604 | AC14-12006C | IC;KA7533,DIP,- | |
| IC605 | 1103-001148 | IC-EEPROM;24C021,2KBIT,DIP,8P,300MIL,10M | |
| IC608 | 1203-000515 | IC-VOL. DETECTOR;7042,TO-92,3P,177MIL,PL | SVR-131 NOT USER |
| L601 | 2701-000002 | INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm | |
| L602 | 2701-000002 | INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm | |
| L603 | 2701-000002 | INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm | |
| L604 | 2701-000002 | INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm | |
| LD601 | 0601-000517 | LED-IR;RECTANGULA,4x6.0mm,75mW,6V,950 | |
| PT601 | 0604-001122 | PHOTO-INTERRUPTER;TR,0.065%,150mW,DIP-4, | |
| PT602 | 0604-001122 | PHOTO-INTERRUPTER;TR,0.065%,150mW,DIP-4, | |
| Q602 | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T | |
| R608 | 2001-000864 | R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R609 | 2001-000864 | R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R613 | 2001-000429 | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM | SVR-131 NOT USER |
| R614 | 2001-000429 | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R641 | 2001-000780 | R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R642 | 2001-000780 | R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R644 | 2001-000429 | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R650 | 2003-000259 | R-METAL OXIDE;3.9OHM,5%,2W,AE,TP,6X16MM | |
| R651 | 2001-000010 | R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R654 | 2001-000812 | R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R655 | 2001-000786 | R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R656 | 2001-000241 | R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R657 | 2001-000010 | R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3.2MM | SVR-131 NOT USER |
| R660 | 2001-000786 | R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R661 | 2001-000660 | R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R666 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R667 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R668 | 2001-000780 | R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R669 | 2001-000780 | R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R670 | 2001-000734 | R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R671 | 2001-000734 | R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R672 | 2001-000734 | R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R674 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R675 | 2001-000032 | R-CARBON;180OHM,5%,1/4W,AA,TP,2.4X6.4MM | |
| R676 | 2001-000633 | R-CARBON;30KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R677 | 2001-000522 | R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R678 | 2001-000522 | R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R679 | 2001-000515 | R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R682 | 2001-000522 | R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R685 | 2001-000660 | R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R686 | 2001-000429 | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R687 | 2001-000429 | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R688 | 2001-000429 | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R690 | 2001-000864 | R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R691 | 2001-000515 | R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R692 | 2001-000568 | R-CARBON;27OHM,5%,1/8W,AA,TP,1.8X3.2MM | SVR-131 NOT USER |
| R693 | 2001-000734 | R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R696 | 2001-000780 | R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| RS601 | AC34-20100B | SWITCH-REC;-,-,X-9,- | |
| S601 | 0603-001011 | PHOTO-TR;NPN,35V,6V,50mA,75mW,BK | |
| S602 | 0603-001011 | PHOTO-TR;NPN,35V,6V,50mA,75mW,BK | |
| SW601 | AC34-20100A | SWITCH-MODE;-,-,X-9,- | |
| W117 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| W128 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| W173 | 2001-000429 | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| W174 | 2001-000429 | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| W250 | 2001-000429 | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| W300 | 2001-000429 | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| XT601 | 2801-003318 | CRYSTAL-UNIT;32.768KHz,20ppm,28-AAP,12.5 | SVR-131 NOT USER |
| XT602 | 2801-003139 | CRYSTAL-UNIT;8MHz,50ppm,28-AAA,22pF,80oh | |
| **AUDIO/VIDEO PARTS** | | | |
| C301 | 2401-001919 | C-AL;2.2uF,20%,50V,-,TP,4x7mm,5 | |
| C302 | 2301-000283 | C-FILM,PEF;47nF,5%,100V,TP,7.3X7X3.2X5,5 | |
| C303 | 2401-001915 | C-AL;1uF,20%,50V,GP,TP,3x5,5 | |
| C304 | 2202-000216 | C-CERAMIC,MLC-AXIAL;.027NF,5%,50V,SL,TP, | |
| C305 | 2202-000164 | C-CERAMIC,MLC-AXIAL;.18NF,10%,50V,Y5P,TP | |
| C306 | 2202-000231 | C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP | |
| C307 | 2202-000162 | C-CERAMIC,MLC-AXIAL;.015NF,5%,50V,SL,TP, | |
| C308 | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP, | |
| C309 | 2401-001915 | C-AL;1uF,20%,50V,GP,TP,3x5,5 | |
| C310 | 2401-000407 | C-AL;10uF,20%,16V,GP,TP,3.5x5,2.5 | |
| C311 | 2401-000922 | C-AL;22uF,20%,16V,GP,TP,5x5,5 | |
| C313 | 2202-000173 | C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1 | |
| C314 | 2401-001775 | C-AL;470nF,20%,50V,GP,TP,4x7,5 | |
| C315 | 2401-000407 | C-AL;10uF,20%,16V,GP,TP,3.5x5,2.5 | |
| C316 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V | |
| C318 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V | |
| C320 | 2401-001915 | C-AL;1uF,20%,50V,GP,TP,3x5,5 | |
| C321 | 2401-000407 | C-AL;10uF,20%,16V,GP,TP,3.5x5,2.5 | |

**ULP : ULTRA LONG PLAY**

| Loc.No | Part No | Description ; Specification | Remark |
|---|---|---|---|
| C322 | 2401-001915 | C-AL;1uF,20%,50V,GP,TP,3x5,5 | |
| C323 | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP, | |
| C324 | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP, | |
| C325 | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP, | |
| C326 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V | |
| C327 | 2401-001507 | C-AL;47uF,20%,16V,GP,TP,6.3x5,5 | |
| C328 | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP, | |
| C329 | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP, | |
| C330 | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP, | |
| C331 | 2401-001507 | C-AL;47uF,20%,16V,GP,TP,6.3x5,5 | |
| C332 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V | |
| C333 | 2401-001915 | C-AL;1uF,20%,50V,GP,TP,3x5,5 | |
| C334 | 2202-002055 | C-CERAMIC,MLC-AXIAL;47nF,+80-20%,50V,Y5V | |
| C335 | 2401-001915 | C-AL;1uF,20%,50V,GP,TP,3x5,5 | |
| C336 | 2401-001915 | C-AL;1uF,20%,50V,GP,TP,3x5,5 | |
| C337 | 2202-000807 | C-CERAMIC,MLC-AXIAL;22nF,+80-20%,25V,Y5V | |
| C338 | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP, | |
| C339 | 2202-002055 | C-CERAMIC,MLC-AXIAL;47nF,+80-20%,50V,Y5V | |
| C340 | 2202-000807 | C-CERAMIC,MLC-AXIAL;22nF,+80-20%,25V,Y5V | |
| C341 | 2401-002144 | C-AL;47uF,20%,16V,GP,TP,5x11,5 | |
| C342 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V | |
| C343 | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP, | |
| C345 | 2201-002031 | C-CERAMIC,DISC;0.005nF,0.5pF,50V,NP0,TP, | |
| C346 | 2401-001507 | C-AL;47uF,20%,16V,GP,TP,6.3x5,5 | |
| C347 | 2202-000286 | C-CERAMIC,MLC-AXIAL;56pF,5%,50V,SL,TP,1. | |
| C348 | 2202-000286 | C-CERAMIC,MLC-AXIAL;56pF,5%,50V,SL,TP,1. | |
| C349 | 2202-000849 | C-CERAMIC,MLC-AXIAL;18pF,5%,50V,CH,TP,3. | |
| C350 | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP, | |
| C380 | 2202-000243 | C-CERAMIC,MLC-AXIAL;33pF,5%,50V,SL,TP,3. | |
| C381 | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP, | |
| C390 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V | |
| C391 | 2202-000121 | C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP | |
| C393 | 2202-000787 | C-CERAMIC,MLC-AXIAL;10PF,5%,50V,Y5P,TP,3 | |
| C395 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V | |
| C398 | 2202-000205 | C-CERAMIC,MLC-AXIAL;22pF,5%,50V,SL,TP,1. | |
| C3A01 | 2401-002299 | C-AL;4.7uF,20%,50V,GP,TP,5x7,5 | |
| C3A02 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V | |
| C3A04 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V | |
| C3A07 | 2301-000392 | C-FILM,PEF;15nF,5%,50V,TP,6.5x8.5x3.2mm, | |
| C3A08 | 2301-001014 | C-FILM,PEF;6.8nF,5%,50V,TP,7x3x6,5mm | |
| C3A09 | 2301-001014 | C-FILM,PEF;6.8nF,5%,50V,TP,7x3x6,5mm | |
| C3A10 | 2301-000314 | C-FILM,PEF;8.2nF,5%,50V,TP,6.5x3.0x5.5mm | |
| C3A11 | 2301-000253 | C-FILM,PEF;39NF,5%,100V,TP,7.5X4.5X12.5M | |
| C3A12 | 2401-002144 | C-AL;47uF,20%,16V,GP,TP,5x11,5 | |
| C3A13 | 2301-000161 | C-FILM,PEF;12nF,5%,50V,TP,6.5X5.5X3.0X5, | |
| C3A14 | 2301-001014 | C-FILM,PEF;6.8nF,5%,50V,TP,7x3x6,5mm | |
| C3A15 | 2301-000381 | C-FILM,PEF;10nF,5%,50V,TP,6.5x5.5x3mm,5m | |
| C3A16 | 2401-002299 | C-AL;4.7uF,20%,50V,GP,TP,5x7,5 | |
| C3A17 | 2401-000922 | C-AL;22uF,20%,16V,GP,TP,5x5,5 | |
| C3A18 | 2301-000402 | C-FILM,PEF;1nF,5%,50V,TP,5x7x2.8mm,5mm | |
| C3A21 | 2301-000008 | C-FILM,PEF;2.2nF,5%,50V,TP,5.5X7X3,5mm | |
| C3A22 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V | |
| C3A23 | 2401-001169 | C-AL;33uF,20%,16V,GP,-,6.3x7,2.5mm | |
| C3A24 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V | |
| C3A25 | 2401-000922 | C-AL;22uF,20%,16V,GP,TP,5x5,5 | |
| C3A29 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V | |
| C3A30 | 2401-002144 | C-AL;47uF,20%,16V,GP,TP,5x11,5 | |
| C3A31 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V | |
| CN301 | 3708-000395 | CONNECTOR-FPC/FC/PIC;8P,1.25MM,STRAIGHT, | |
| CN3A01 | 3708-001302 | CONNECTOR-FPC/FC/PIC;7P,1.25mm,STRAIGHT, | |
| CN3A02 | 3711-002445 | CONNECTOR-HEADER;BOX,2P,2R,1.5MM,STRAIGH | |
| D302 | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200mA,DO-35, | |
| FL3A01 | AC27-80100A | COIL-OSC;126QN-K5272YHC=K,-,AM | |
| IC301 | 1204-001649 | IC-VIDEO PROCESS;LA71598M,QFP,100P,-,PLA | |
| L301 | 2701-000206 | INDUCTOR-AXIAL;56uH,5%,2.4x3.4mm | |
| L302 | 2701-000002 | INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm | |
| L303 | 2701-000002 | INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm | |
| L304 | 2701-000002 | INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm | |
| L306 | 2701-000119 | INDUCTOR-AXIAL;120uH,5%,2.4x3.4mm | |
| L307 | 2701-000122 | INDUCTOR-AXIAL;12uH,5%,2.4x3.4mm | |
| L3A01 | 2702-000120 | INDUCTOR-RADIAL;15mH,5%,6.2x7.4mm | |
| L3A02 | 2702-000106 | INDUCTOR-RADIAL;100uH,10%,6.2x7.4mm | |
| L3A03 | 2701-000002 | INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm | |
| L3A04 | 2702-000106 | INDUCTOR-RADIAL;100uH,10%,6.2x7.4mm | |
| Q302 | 0501-000303 | TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T | |
| Q303 | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T | |
| Q304 | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T | |
| Q308 | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T | |
| Q309 | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T | |
| Q3A01 | 0501-000303 | TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T | |
| Q3A03 | 0501-000442 | TR-SMALL SIGNAL;KTC3203-Y,NPN,400MW,T0-9 | |
| Q3A04 | 0501-000442 | TR-SMALL SIGNAL;KTC3203-Y,NPN,400MW,T0-9 | |
| Q3A05 | 0501-000442 | TR-SMALL SIGNAL;KTC3203-Y,NPN,400MW,T0-9 | |
| Q3A06 | 0501-000303 | TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T | |
| R301 | 2001-000449 | R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R302 | 2001-000429 | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R303 | 2001-000258 | R-CARBON;1.8KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R304 | 2001-000977 | R-CARBON;8.2KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R306 | 2001-000232 | R-CARBON;1.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R308 | 2001-000429 | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R309 | 2001-000723 | R-CARBON;4.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R311 | 2001-000429 | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R312 | 2001-000221 | R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R313 | 2001-000515 | R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R314 | 2001-000924 | R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R315 | 2001-000472 | R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R316 | 2001-000221 | R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R317 | 2001-000003 | R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R318 | 2001-000003 | R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R320 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R321 | 2001-000009 | R-CARBON;20KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R322 | 2001-000539 | R-CARBON;24KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R325 | 2001-000472 | R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R326 | 2001-000832 | R-CARBON;510OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R327 | 2001-000832 | R-CARBON;510OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R328 | 2001-000734 | R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R329 | 2001-000472 | R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2M | 4H'D ONLY |
| R330 | 2001-000734 | R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R331 | 2001-000515 | R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R332 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R333 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R334 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R335 | 2001-000800 | R-CARBON;5.1KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R336 | 2001-000008 | R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R337 | 2001-001000 | R-CARBON;82KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R342 | 2001-000812 | R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R346 | 2001-000258 | R-CARBON;1.8KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R3A01 | 2001-000331 | R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R3A04 | 2001-000241 | R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R3A05 | 2001-000660 | R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R3A06 | 2001-000325 | R-CARBON;120OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R3A07 | 2001-000645 | R-CARBON;330KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R3A08 | 2001-000331 | R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R3A09 | 2001-000812 | R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R3A10 | 2001-000429 | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R3A11 | 2001-000258 | R-CARBON;1.8KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R3A12 | 2001-000458 | R-CARBON;2.2OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R3A13 | 2001-000780 | R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R3A14 | 2001-000522 | R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R3A15 | 2001-000411 | R-CARBON;18KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R3A16 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R3A17 | 2001-000613 | R-CARBON;3.9KOHM,5%,1/8W,AA,TP,1.8X3.2M | |

| Loc.No | Part No | Description ; Specification | Remark |
|---|---|---|---|
| R3A18 | 2001-000613 | R-CARBON;3.9KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R3A19 | 2001-000405 | R-CARBON;180OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R3A21 | 2001-000904 | R-CARBON;620OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R3A22 | 2001-000006 | R-CARBON;2.4KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R3A23 | 2001-000812 | R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R3A24 | 2001-000522 | R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R3A25 | 2001-000221 | R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R3A26 | 2001-000331 | R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R3A27 | 2001-000947 | R-CARBON;7.5KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R3A28 | 2001-000890 | R-CARBON;6.8KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R3A29 | 2001-000890 | R-CARBON;6.8KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R3A30 | 2001-000454 | R-CARBON;2.2MOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R3A31 | 2001-000766 | R-CARBON;43KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R3A32 | 2001-000766 | R-CARBON;43KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R3A33 | 2001-000766 | R-CARBON;43KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R3A37 | 2001-000947 | R-CARBON;7.5KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| XT301 | 2801-001397 | CRYSTAL-UNIT;4.433619MHZ,HC-49/U-S 15PPM | |
| R324 | 2001-000554 | R-CARBON;270OHM,5%,1/8W,AA,TP,1.8X3.2MM | SVR-433 NOT USER |
| Q307 | 0504-000119 | TR-DIGITAL;KSR1004,NPN,300MW,47K/47K,TO- | SVR-433 NOT USER |
| R329 | 2001-000734 | R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M | 2H'D ONLY |
| **TM-BLOCK** | | | |
| C401 | 2401-002144 | C-AL;47uF,20%,16V,GP,TP,5x11,5 | |
| C402 | 2202-000807 | C-CERAMIC,MLC-AXIAL;22nF,+80-20%,25V,Y5V | |
| C403 | 2401-002144 | C-AL;47uF,20%,16V,GP,TP,5x11,5 | |
| C404 | 2202-000807 | C-CERAMIC,MLC-AXIAL;22nF,+80-20%,25V,Y5V | |
| C405 | 2401-001573 | C-AL;47uF,20%,50V,GP,TP,6.3x11,2.5 | |
| C406 | 2202-000807 | C-CERAMIC,MLC-AXIAL;22nF,+80-20%,25V,Y5V | |
| C407 | 2401-001085 | C-AL;330nF,20%,50V,GP,-,5x9,2mm | |
| D401 | 0402-000127 | DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP | |
| L401 | 2701-000002 | INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm | |
| L402 | 2701-000002 | INDUCTOR-AXIAL;100uH,10%,4.2x9.8mm | |
| R401 | 2001-000786 | R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R402 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R403 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R404 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| TM401 | AC40-00001G | TM-BLOCK;TCMK0600PD11A,G/I/K(MONO),TCMK | |
| TM401 | AC40-20100L | RF-MODULATOR;RMUP74055VC,VCP PAL | SVR-131 ONLY |
| ZD401 | 0403-000390 | DIODE-ZENER;UZP33B,33V,31.4-34.6V,1W,DO- | |
| **O.S.D. PARTS** | | | |
| C6P01 | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP, | |
| C6P02 | 2401-002144 | C-AL;47uF,20%,16V,GP,TP,5x11,5 | |
| C6P03 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V | |
| C6P04 | 2202-000243 | C-CERAMIC,MLC-AXIAL;33pF,5%,50V,SL,TP,3. | |
| C6P05 | 2202-000216 | C-CERAMIC,MLC-AXIAL;.027NF,5%,50V,SL,TP, | |
| C6P08 | 2202-000286 | C-CERAMIC,MLC-AXIAL;56pF,5%,50V,SL,TP,1. | |
| C6P09 | 2202-000145 | C-CERAMIC,MLC-AXIAL;.12NF,10%,50V,Y5P,TP | |
| C6P10 | 2401-001915 | C-AL;1uF,20%,50V,GP,TP,3x5,5 | |
| C6P11 | 2401-001915 | C-AL;1uF,20%,50V,GP,TP,3x5,5 | |
| C6P12 | 2401-002144 | C-AL;47uF,20%,16V,GP,TP,5x11,5 | |
| C6P13 | 2202-002037 | C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5V | |
| IC6P01 | AC09-00078A | IC-OSD;LC74759JM-9785,LC74759JM-9785, | |
| IC6P01 | AC09-10458R | IC-MCU;LC74783JM-9745,24P,MFP,OSD IC,- | SVR-131 ONLY |
| L6P03 | 2701-000160 | INDUCTOR-AXIAL;22uH,5%,2.4x3.4mm | |
| L6P05 | 2702-001077 | INDUCTOR-RADIAL;27uH,5%,5.5x5.5mm | |
| Q6P01 | 0501-000303 | TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T | |
| Q6P02 | 0501-000303 | TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,T | |
| R6P07 | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R6P08 | 2001-000005 | R-CARBON;390ohm,5%,1/8W,AA,TP,1.8x3.2mm | |
| R6P09 | 2001-000449 | R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R6P10 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | SVR-131 NOT USER |

| Loc.No | Part No | Description ; Specification | Remark |
|---|---|---|---|
| **INPUT-OUTPUT PARTS** | | | |
| C801 | 2401-002144 | C-AL;47uF,20%,16V,GP,TP,5x11,5 | |
| C802 | 2401-001479 | C-AL;470uF,20%,10V,GP,TP,-,- | |
| C806 | 2202-000830 | C-CERAMIC,MLC-AXIAL;82pF,10%,50V,Y5P,TP, | |
| C809 | 2401-002299 | C-AL;4.7uF,20%,50V,GP,TP,5x7,5 | |
| C810 | 2401-001074 | C-AL;330nF,20%,50V,GP,TP,4x5,2.5mm | |
| C812 | 2202-000121 | C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP | |
| C813 | 2202-000173 | C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1 | |
| C814 | 2202-000121 | C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP | |
| JC801 | AC37-20001H | JACK-RCA;DPAM-,4P,MONO,PI3.3 | |
| L801 | 2701-000181 | INDUCTOR-AXIAL;33uH,5%,2.4x3.4mm | |
| L802 | 2701-000181 | INDUCTOR-AXIAL;33uH,5%,2.4x3.4mm | |
| R801 | 2001-000449 | R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R802 | 2001-000995 | R-CARBON;820OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R803 | 2001-000221 | R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M | |
| R806 | 2001-000969 | R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R808 | 2001-000969 | R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R809 | 2001-000969 | R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R810 | 2001-000554 | R-CARBON;270OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| **FUNCTION MATRIX PARTS** | | | |
| CN703 | 3708-001163 | CONNECTOR-FPC/FC/PIC;5P,1.25mm,STRAIGHT, | |
| CN708 | 3711-004013 | CONNECTOR-HEADER;3WALL,10P,1R,2mm,STRAIG | |
| D701 | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200mA,DO-35, | |
| D702 | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200mA,DO-35, | |
| D703 | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200mA,DO-35, | |
| D704 | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200mA,DO-35, | |
| D705 | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200mA,DO-35, | |
| D706 | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200mA,DO-35, | |
| D708 | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200mA,DO-35, | |
| D709 | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200mA,DO-35, | |
| D720 | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200mA,DO-35, | |
| Q701 | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T | |
| Q702 | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T | |
| Q703 | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T | |
| Q704 | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T | |
| Q705 | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T | |
| Q708 | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T | SVR-433 ONLY |
| Q711 | 0501-000290 | TR-SMALL SIGNAL;KSA643-Y,PNP,500mW,TO-92 | SVR-433 ONLY |
| Q712 | 0501-000290 | TR-SMALL SIGNAL;KSA643-Y,PNP,500mW,TO-92 | SVR-433 ONLY |
| Q713 | 0501-000290 | TR-SMALL SIGNAL;KSA643-Y,PNP,500mW,TO-92 | SVR-433 ONLY |
| Q714 | 0501-000290 | TR-SMALL SIGNAL;KSA643-Y,PNP,500mW,TO-92 | SVR-433 ONLY |
| Q715 | 0501-000290 | TR-SMALL SIGNAL;KSA643-Y,PNP,500mW,TO-92 | SVR-433 ONLY |
| R701 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R702 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R703 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R704 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R705 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R706 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R707 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R708 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | SVR-433 ONLY |
| R711 | 2001-000449 | R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M | SVR-433 ONLY |
| R712 | 2001-000449 | R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M | SVR-433 ONLY |
| R713 | 2001-000449 | R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M | SVR-433 ONLY |
| R714 | 2001-000449 | R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M | SVR-433 ONLY |
| R715 | 2001-000449 | R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M | SVR-433 ONLY |
| R716 | 2001-000449 | R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M | SVR-433 ONLY |
| R718 | 2001-000969 | R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM | SVR-433 ONLY |
| R718 | 2001-000362 | R-CARBON;150OHM,5%,1/8W,AA,TP,1.8X3.2MM | SVR-433 NOT USER |
| R719 | 2001-000969 | R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM | SVR-433 ONLY |
| R719 | 2001-000362 | R-CARBON;150OHM,5%,1/8W,AA,TP,1.8X3.2MM | SVR-433 NOT USER |
| R720 | 2001-000969 | R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM | SVR-433 ONLY |
| R720 | 2001-000362 | R-CARBON;150OHM,5%,1/8W,AA,TP,1.8X3.2MM | SVR-433 NOT USER |
| R721 | 2001-000969 | R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM | SVR-433 ONLY |
| R721 | 2001-000362 | R-CARBON;150OHM,5%,1/8W,AA,TP,1.8X3.2MM | SVR-433 NOT USER |
| R722 | 2001-000969 | R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM | SVR-433 ONLY |

| Loc.No | Part No | Description ; Specification | Remark |
|---|---|---|---|
| R722 | 2001-000362 | R-CARBON;150OHM,5%,1/8W,AA,TP,1.8X3.2MM | SVR-433 NOT USER |
| R723 | 2001-000969 | R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM | SVR-433 ONLY |
| R723 | 2001-000362 | R-CARBON;150OHM,5%,1/8W,AA,TP,1.8X3.2MM | SVR-433 NOT USER |
| R724 | 2001-000969 | R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM | SVR-433 ONLY |
| R727 | 2001-000008 | R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R728 | 2001-000008 | R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| SW701 | 3404-001076 | SWITCH-TACT;12V,50mA,16gf+-50gf,6x6mm,SP | |
| SW703 | 3404-001076 | SWITCH-TACT;12V,50mA,16gf+-50gf,6x6mm,SP | |
| SW706 | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SPST | |
| SW707 | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SPST | |
| SW708 | 3404-001076 | SWITCH-TACT;12V,50mA,16gf+-50gf,6x6mm,SP | |
| SW709 | 3404-001076 | SWITCH-TACT;12V,50mA,16gf+-50gf,6x6mm,SP | |
| SW711 | 3404-001076 | SWITCH-TACT;12V,50mA,16gf+-50gf,6x6mm,SP | |
| SW712 | 3404-001076 | SWITCH-TACT;12V,50mA,16gf+-50gf,6x6mm,SP | |
| SW713 | 3404-001076 | SWITCH-TACT;12V,50mA,16gf+-50gf,6x6mm,SP | |
| SW714 | 3404-001076 | SWITCH-TACT;12V,50mA,16gf+-50gf,6x6mm,SP | |
| SW715 | 3404-001076 | SWITCH-TACT;12V,50mA,16gf+-50gf,6x6mm,SP | |
| SW716 | 3404-001076 | SWITCH-TACT;12V,50mA,16gf+-50gf,6x6mm,SP | |
| SW718 | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SPST | |
| **FRONT A/V JACK (SVR-433/233 ONLY)** | | | |
| C704 | 2401-000407 | C-AL;10uF,20%,16V,GP,TP,3.5x5,2.5 | |
| C706 | 2202-000173 | C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1 | |
| CN709 | 3710-001385 | CONNECTOR-SOCKET;10P,1R,2mm,ANGLE,SN | |
| D707 | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200mA,DO-35, | |
| JK701 | AC37-22002J | JACK-PIN;3.2mm,DPSE-9814,2P,13mm,S/W | |
| L703 | 2701-000181 | INDUCTOR-AXIAL;33uH,5%,2.4x3.4mm | |
| Q706 | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T | |
| Q707 | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T | |
| R735 | 2001-000969 | R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| **-** | **-** | **ASSY-PCB-F/TIMER;LED MODILE** | **S.N.A.** |
| C701 | 2401-002165 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5 | |
| C702 | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP, | |
| C703 | 2202-000173 | C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1 | |
| CN705 | 3711-001198 | CONNECTOR-HEADER;NOWALL,10P,1R,2mm,ANGLE | |
| CN706 | 3711-001198 | CONNECTOR-HEADER;NOWALL,10P,1R,2mm,ANGLE | |
| DT701 | 0703-001096 | LED DISPLAY;AMB,6,10,50x22.5mm | |
| Q709 | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T | |
| Q710 | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T | |
| Q716 | 0501-000290 | TR-SMALL SIGNAL;KSA643-Y,PNP,500mW,TO-92 | |
| R709 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R710 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R717 | 2001-000969 | R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R725 | 2001-000969 | R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R726 | 2001-000969 | R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R731 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| RM701 | AC59-60060A | MODULE-REMOCON;GP1U281R,SHARP,38KHZ,-,-, | |
| **-** | **-** | **ASSY-PCB-F/TIMER;LED SINGLE** | **S.N.A.** |
| C701 | 2401-002165 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5 | |
| C702 | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5S,TP, | |
| C703 | 2202-000173 | C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,1 | |
| CN705 | 3711-001198 | CONNECTOR-HEADER;NOWALL,10P,1R,2mm,ANGLE | |
| CN706 | 3711-001198 | CONNECTOR-HEADER;NOWALL,10P,1R,2mm,ANGLE | |
| D711 | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200mA,DO-35, | |
| LD702 | 0601-001201 | LED;ROUND,RED,3mm,635nm | |
| LD703 | 0601-001408 | LED;TAPG,-,-,- | |
| LD704 | 0601-001408 | LED;TAPG,-,-,- | |
| LD705 | 0601-001408 | LED;TAPG,-,-,- | |
| LD706 | 0601-001408 | LED;TAPG,-,-,- | |
| LD707 | 0601-001408 | LED;TAPG,-,-,- | |
| LD709 | 0601-001408 | LED;TAPG,-,-,- | |
| Q710 | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,T | |
| R710 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R729 | 2001-000490 | R-CARBON;200OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R730 | 2001-000780 | R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| R731 | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | |
| RM701 | AC59-60060A | MODULE-REMOCON;GP1U281R,SHARP,38KHZ,-,-, | |
| **-** | **-** | **ASSY-PCB-SUB;SHUTTLE** | **S.N.A.** |
| CN707 | 3708-001164 | CONNECTOR-FPC/FC/PIC;5P,1.25MM,ANGLE,SN | |
| SH701 | 2101-000101 | VR-ROTARY;100Kohm,20%,1/10W,SIDE | |

# MEMO

# 5. Schematic Diagrams


Block Identification of Main PCB - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 5-2

5-1 S.M.P.S. (Free Voltage ; SVR-433/233/230B/230W/131) - - - - - - - - - - - - - - - - - 5-3

5-2 S.M.P.S. (230 Voltage ; SVR-2301) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 5-4

5-3 Power Drive - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 5-5

5-4 System Control/Servo/Display/F-AV/Shuttle - - - - - - - - - - - - - - - - - - - - - - 5-6

5-5 Audio/Video/OSD - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 5-7

5-6 TM-Block/Input-Output - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 5-8

5-7 Remote-Control (Multi-TV) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 5-9

5-8 Remote-Control (VCR Only) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - 5-10

**Note**

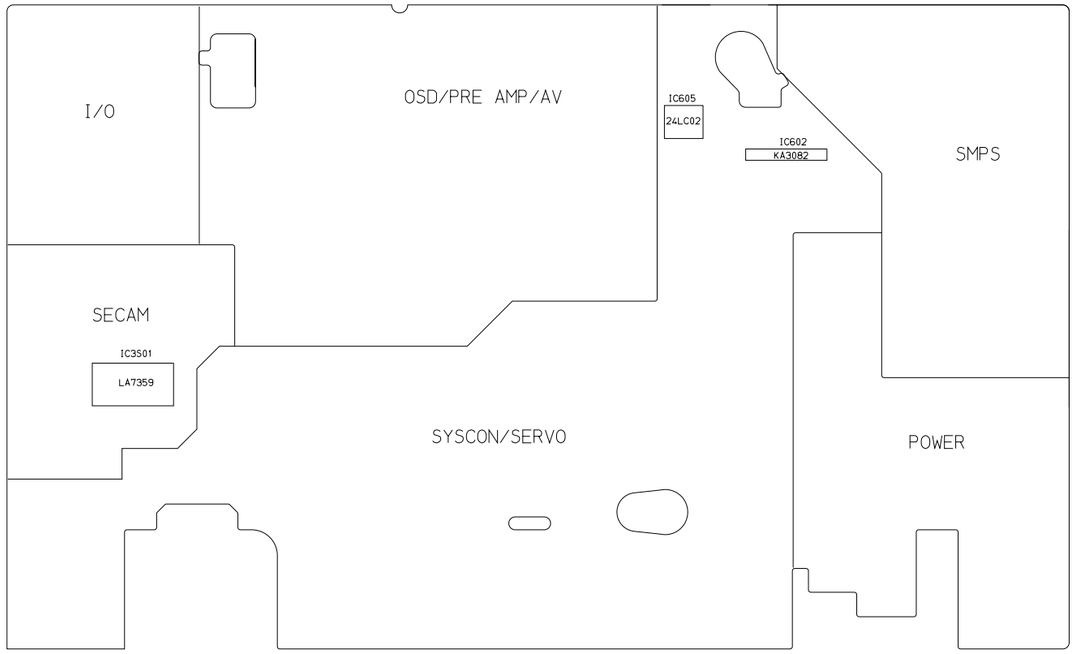
For schematic Diagram
- Resistors are in ohms, 1/8W unless otherwise noted.

**Special note :**
Most semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "electrostatically sensitive (ES) devices" section of this service manual.

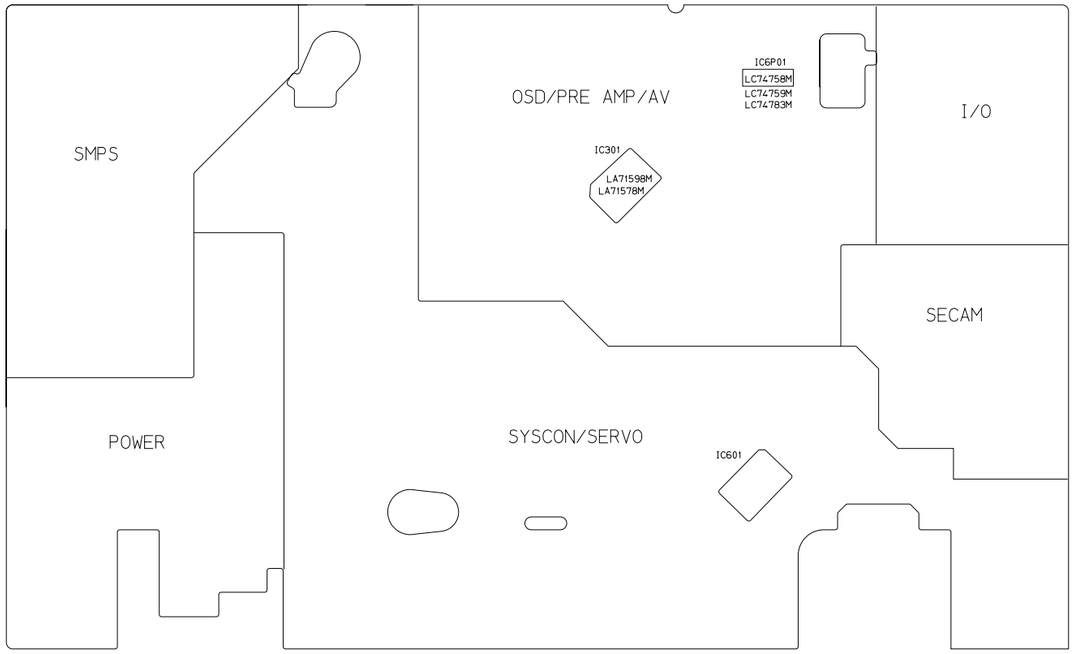
**Note :**
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list (may be slightly different or amended since this drawing was prepared).

**Important safety notices :**
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components.
Use only the same type.

## Block Identification of Main PCB

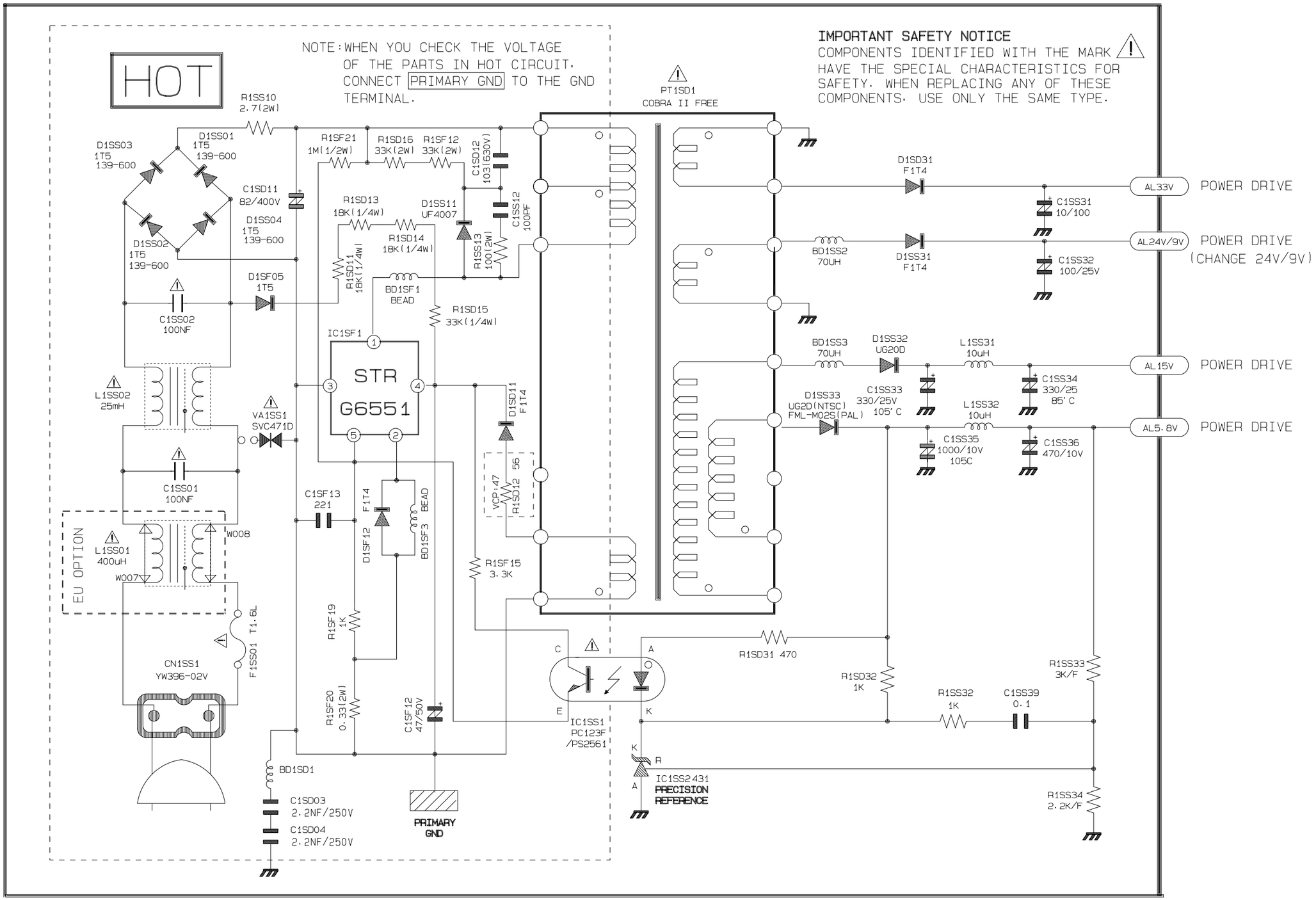



Component Side

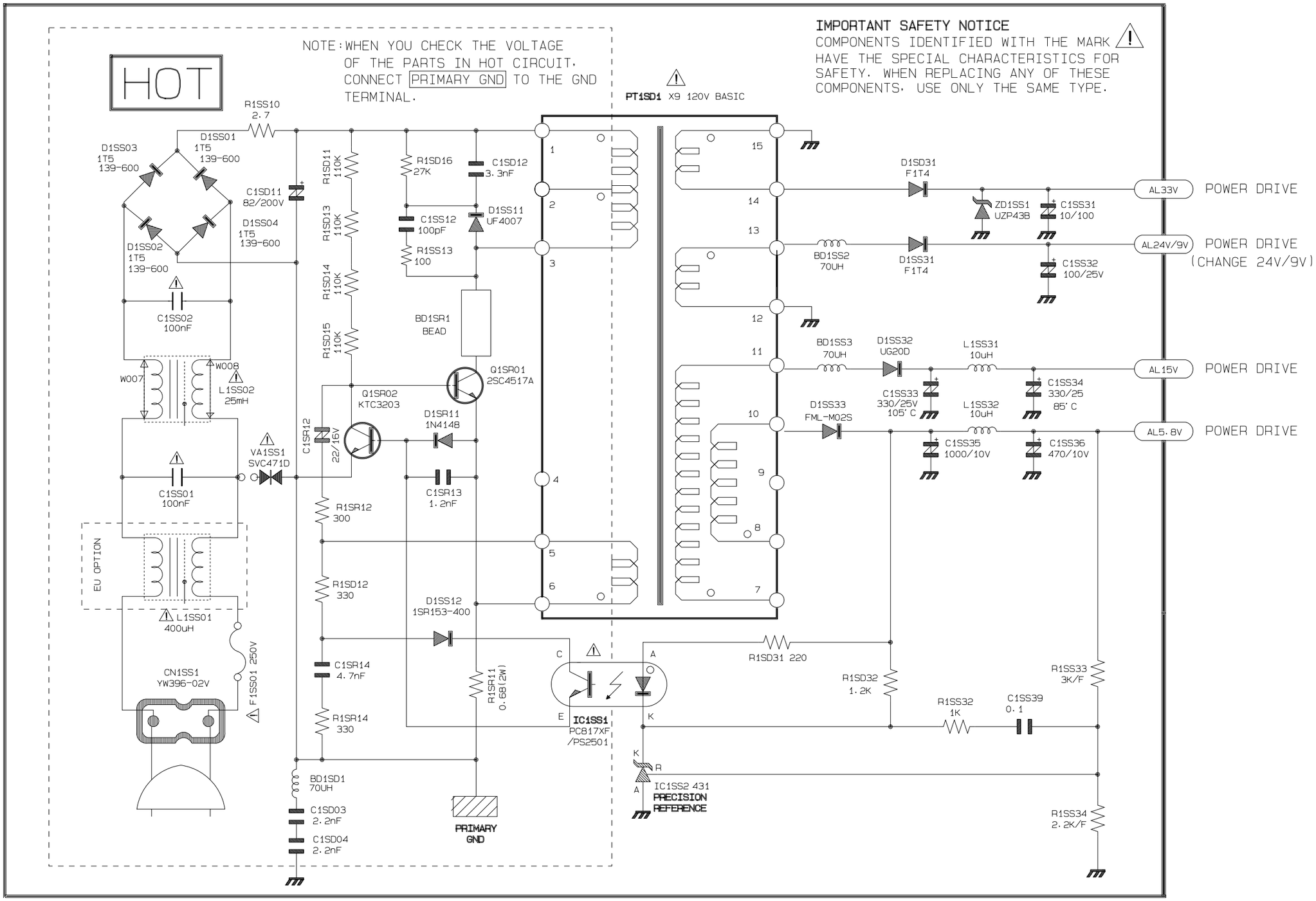



Conductor Side

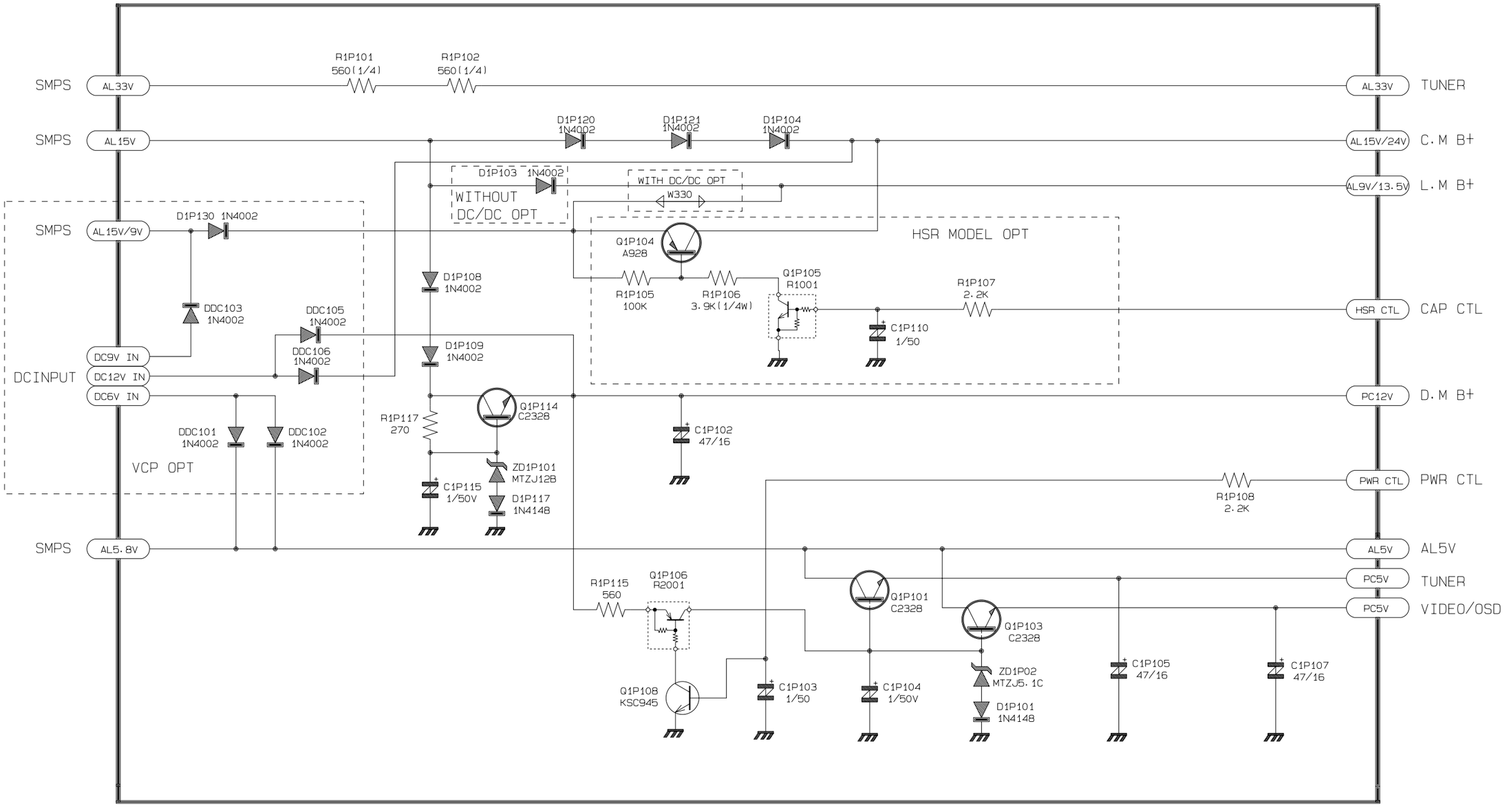
## 5-1 S.M.P.S. (Free Voltage ; SVR-433/233/230B/230W/131)



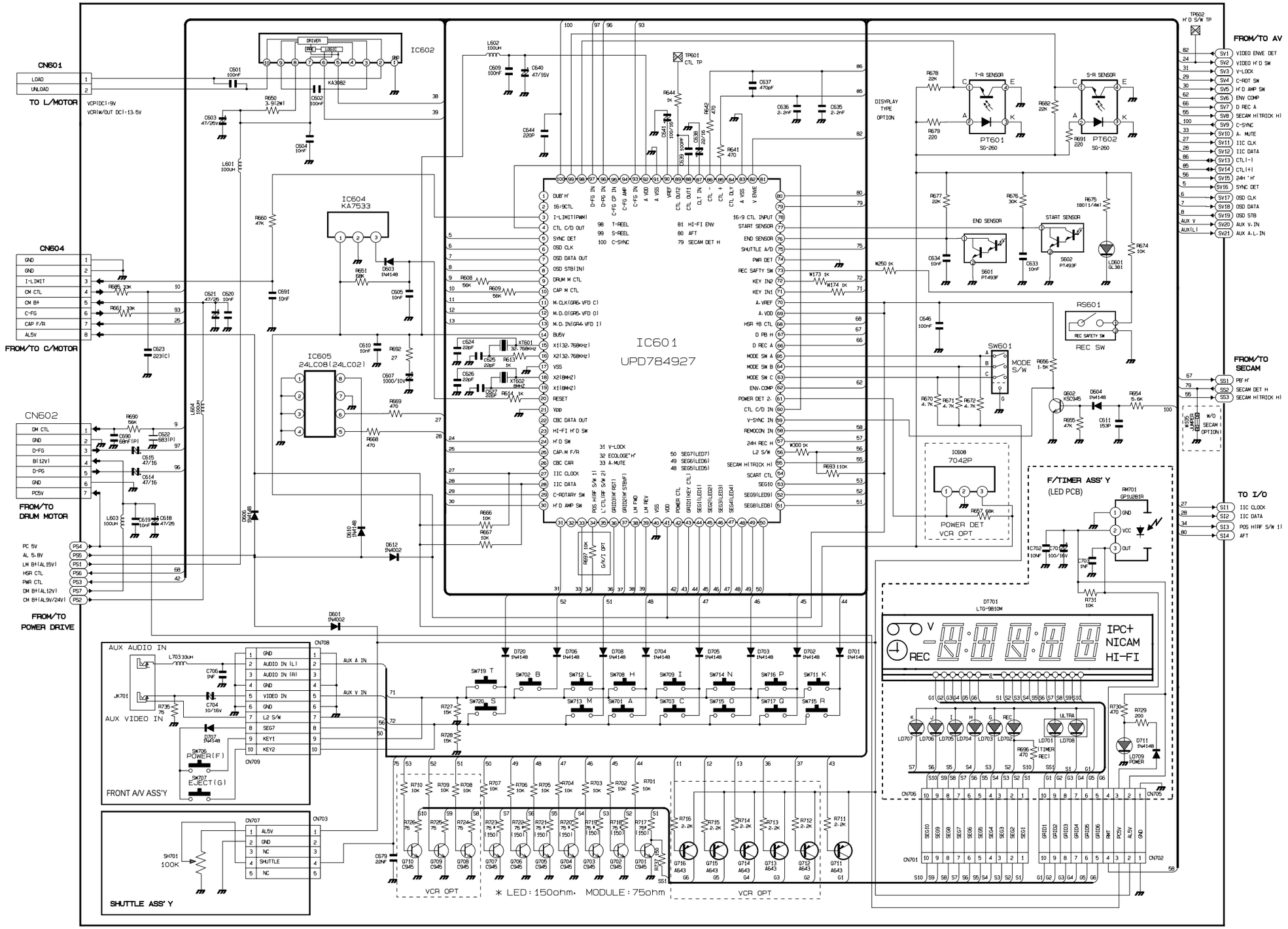
## 5-2 S.M.P.S. (230 Voltage ; SVR-2301)



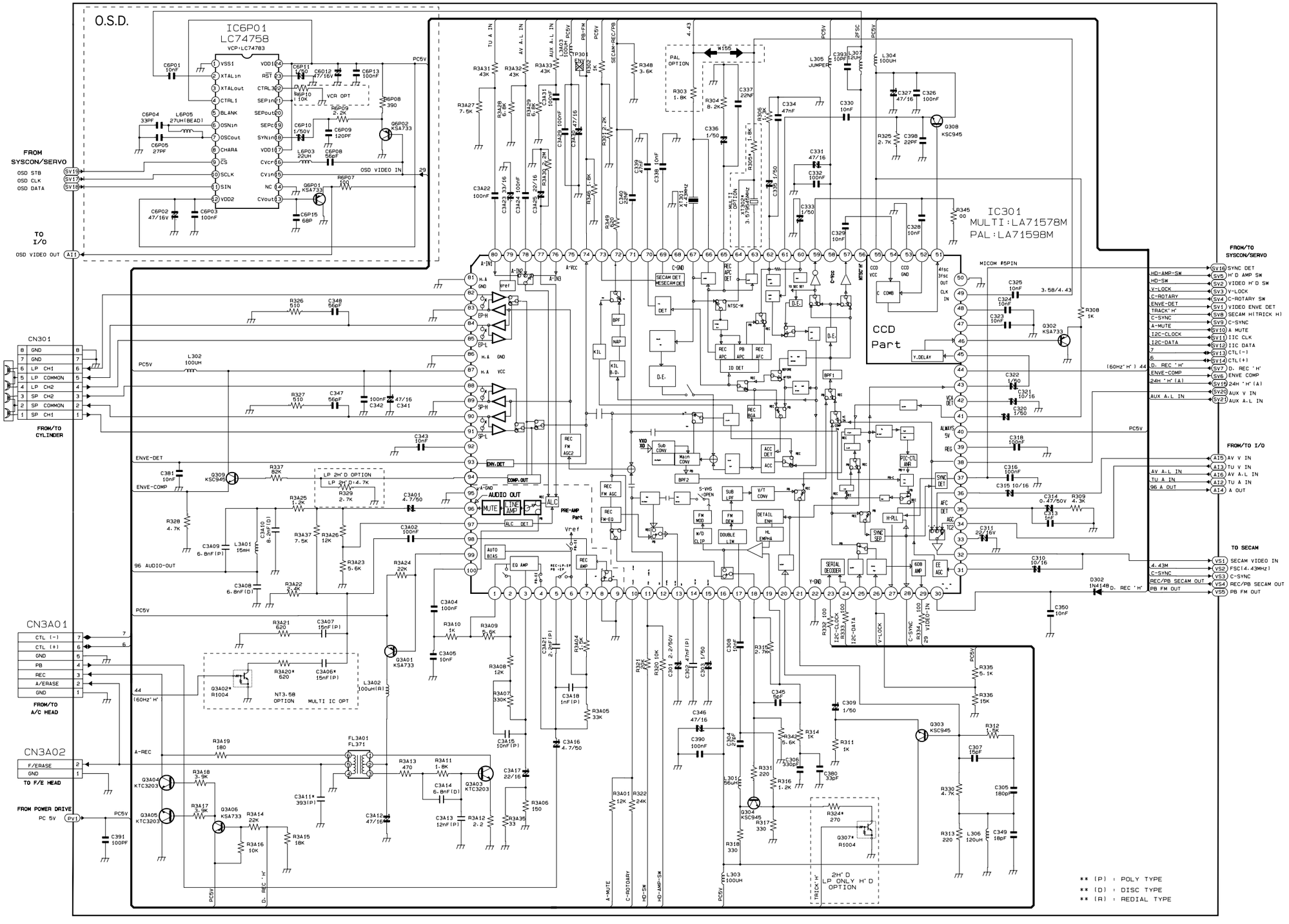
## 5-3 Power Drive



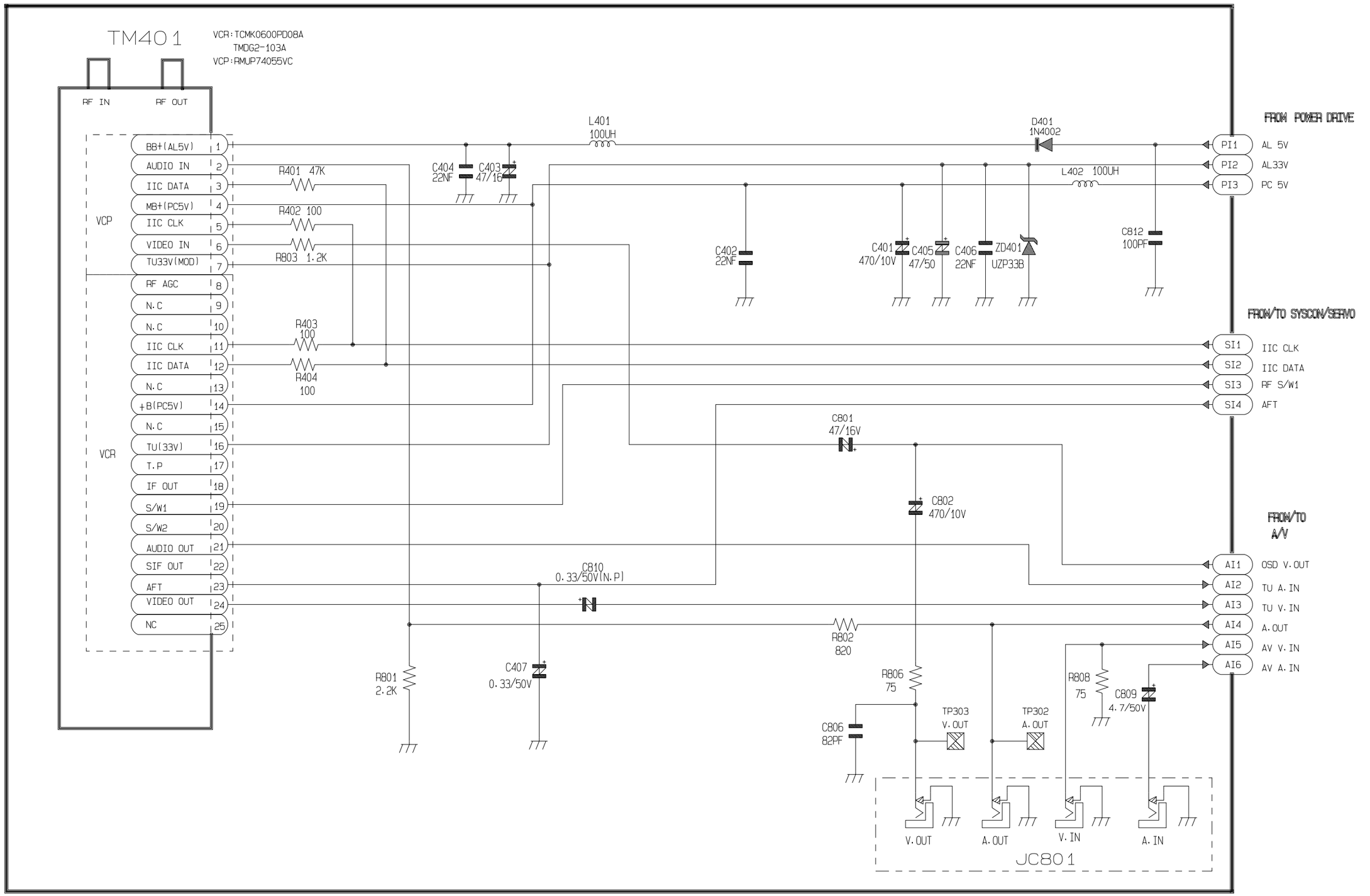
# 5-4 System Control/Servo/Display/F-AV/Shuttle



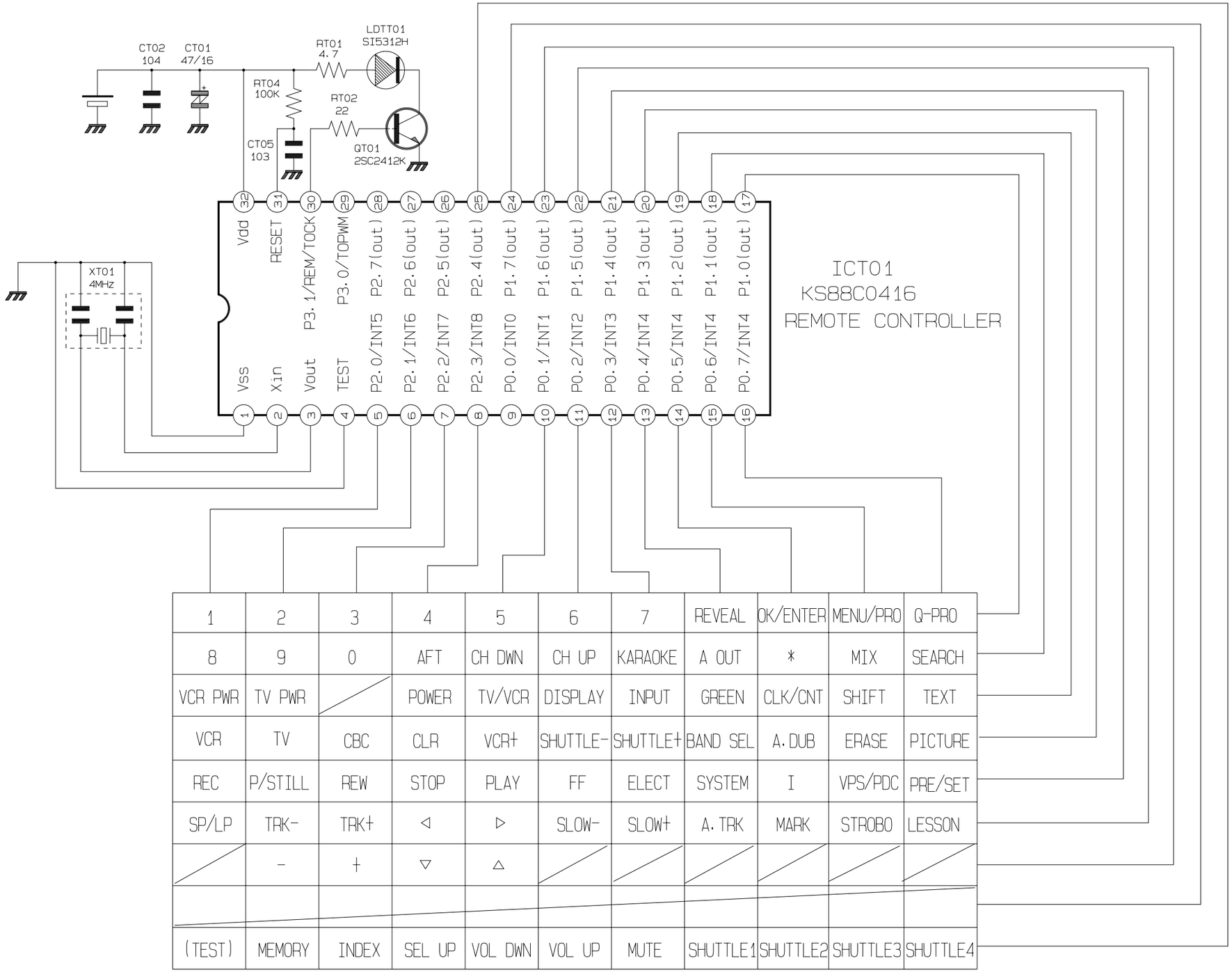
## 5-5 Audio/Video/OSD

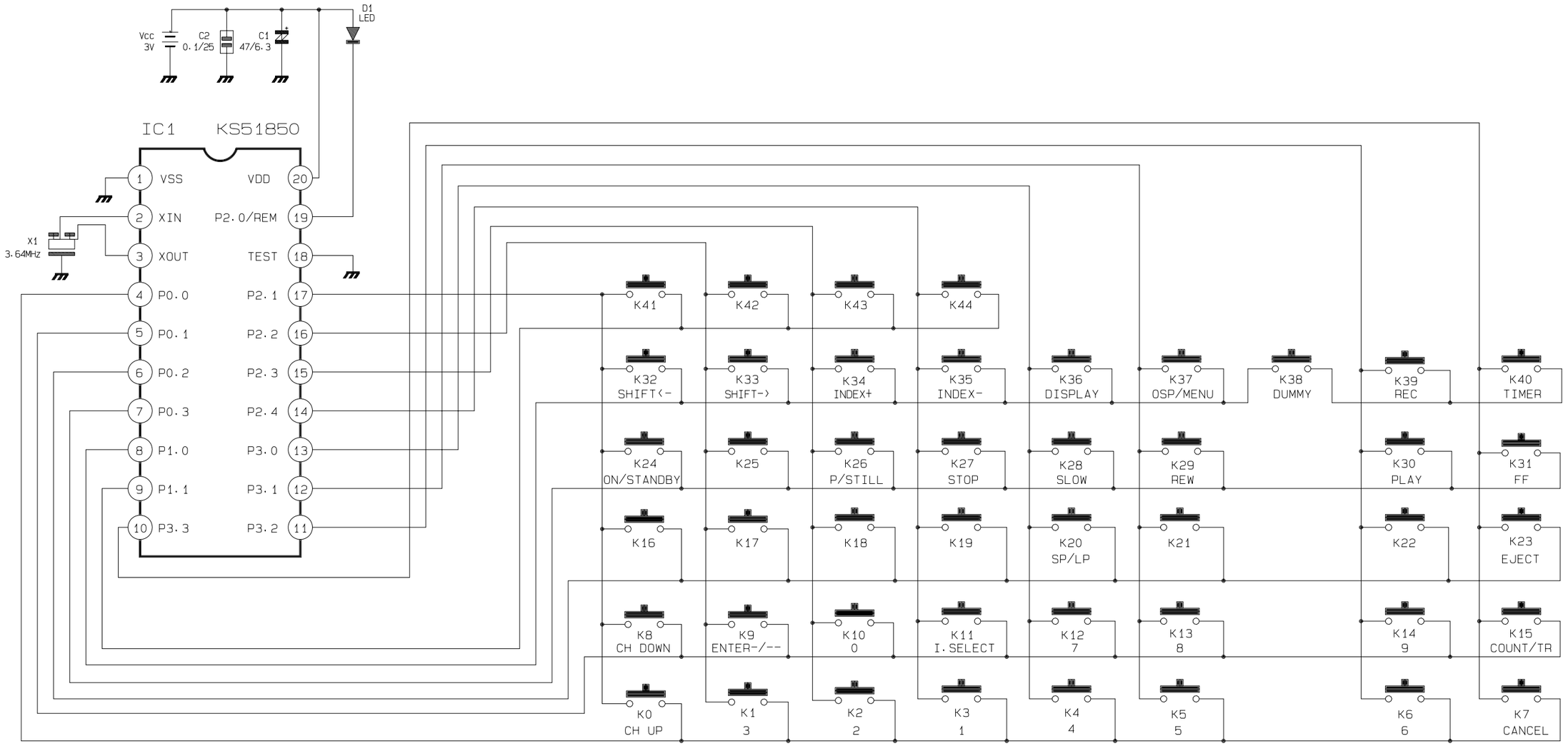


## 5-6 TM-Block/Input-Ouput



## 5-7 Remote-Control (Multi-TV)




| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | REVEAL | OK/ENTER | MENU/PRO | Q-PRO |
| 8 | 9 | 0 | AFT | CH DWN | CH UP | KARAOKE | A OUT | * | MIX | SEARCH |
| VCR PWR | TV PWR | | POWER | TV/VCR | DISPLAY | INPUT | GREEN | CLK/CNT | SHIFT | TEXT |
| VCR | TV | CBC | CLR | VCR+ | SHUTTLE- | SHUTTLE+ | BAND SEL | A.DUB | ERASE | PICTURE |
| REC | P/STILL | REW | STOP | PLAY | FF | ELECT | SYSTEM | I | VPS/PDC | PRE/SET |
| SP/LP | TRK- | TRK+ | ◁ | ▷ | SLOW- | SLOW+ | A.TRK | MARK | STROBO | LESSON |
| | - | + | ▽ | △ | | | | | | |
| | | | | | | | | | | |
| (TEST) | MEMORY | INDEX | SEL UP | VOL DWN | VOL UP | MUTE | SHUTTLE1 | SHUTTLE2 | SHUTTLE3 | SHUTTLE4 |

## 5-8 Remote-Control (VCR Only)